7C1

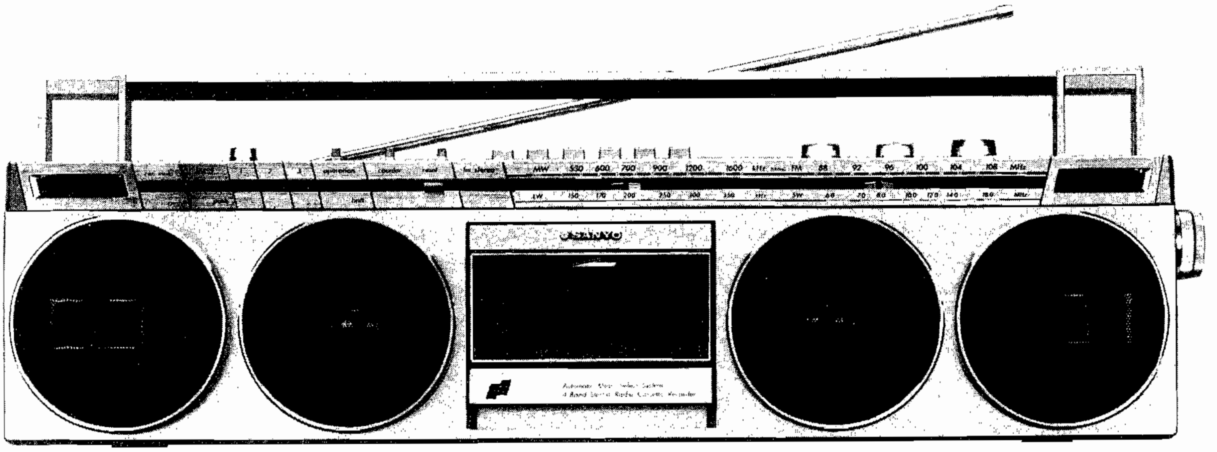
SERVICE MANUAL

SANYO

STEREO RADIO CASSETTE RECORDER

M7830LU

EUROPE



142 340 17

SPECIFICAITONS

Power Source	
AC	115V/230V (50Hz)
DC	12V
(HP 11, Babyzelle, R 14) x 8	
Output Power	5W x 2 (Max.)
Power Consumption	20W
Current Consumption (at Vol. Min.)	
Record mode	370mA
Playback mode	160mA
Fast Forward mode	140mA
Rewind mode	140mA
Recording System	AC Bias
Erasing System	AC Erasing
Tape Speed	1-7/8ips. ± 3%
Wow & Flutter	0.15% WRMS
Fast Forward Time	100sec. (with C-60)
Rewind Time	100sec. (with C-60)
Frequency Response (Overall)	
Fe_2O_3	80Hz~ 12,000Hz
CrO_2	80Hz~ 12,000Hz
Metal	80Hz~ 14,000Hz

Erase Ratio (Overall, with Fe_2O_3)	70dB
Signal to Noise Ratio (with Fe_2O_3)	45dB
Crosstalk (with Fe_2O_3)	
Track to Track	68dB
Channel Separation (with Fe_2O_3)	40dB
Harmonic Distortion (K3, with Fe_2O_3)	1.2%
Hum & Noise (at Vol. Min.)	−50dBs
Input Sensitivity and Impedance	
MIC.	0.3mV/6kΩ
DIN INPUT	0.1mV/1kΩ
Output Level and Impedance	
DIN OUTPUT	300mV/6kΩ (470kΩ load)
Ext. Speaker	6.3V/8Ω (max.)
Headphone	1V/32Ω
Oscillation Frequency	61kHz
Frequency Range	
LW	150~ 350kHz
MW	525~ 1,605kHz
SW	6~ 18MHz
FM	88~ 108MHz

–Specifications subject to change without notice.–

WM-8429

NOTE:
The above mentioned specifications are mainly based on the IHF measurements standard. They can therefore not directly be compared with specifications based on the DIN standard or other standards.

7C1

ADJUSTMENT

GENERAL REMARKS

- Before disassemblying the unit, spread a soft cloth or a rubber mat on the work bench to avoid scratches and grease stains.
- Do not use a material which is likely to cause static electricity because transistors and ICs are easily broken by it.
- Correctly reassemble the unit, noting the kinds of fastening screws and the lead arrangement. Refer to "Schematic Diagrams" and "Exploded Views".
- Before disassembling the unit, take out the cassette tape and the batteries.
- Before adjustment, wipe the tape contacting surfaces clean as well as the contacting surfaces of the driving parts with a soft cloth soaked in alcohol. Trouble may occur because of oil and grease stains.
- Carefully handle the Belt because grease easily attaches to it. Then, check the used rubber parts. If the rubber has deteriorated or is scratched, replace the part with a new one.

EQUIPMENT REQUIRED

- VTVM (2 sets)
- Frequency Counter
- Dummy Load (470kΩ)
- Dualtrace Synchroscope
- Test Tapes
  - * 3kHz Test Tape (Example: TEAC MTT-111) for Tape Speed Adjustment
  - * 8kHz Test Tape (Example: TEAC MTT-113C) for Head Azimuth Adjustment
  - * Normal Tape (Example: TDK AC-222) for recording and playback operations
- DC Constant-voltage Regulator
- Alignment Tool

Unless especially specified, set the Switches and Controls as follows:

Tape Select Switch	NORMAL
Function Switch	TAPE
Mode Switch	STEREO
Volume Control	Arbitrary
Treble Control	0 (click position)
Bass Control	0 (click position)
OSC Switch	1

NOTE:

* Supply 12V DC to the Ext. Power Jack from the constant-voltage regulator and obtain the output from the DIN socket.

* Set an audio signal generator output level to 0dB.

AMSS SOLENOID ADJUSTMENT

AMSS (Automatic Music Select System) detects a silent space (unrecorded portion) between each song on a music tape and automatically plays back a desired sibgc from the start.

NOTE:

Unrecorded portion should last at least four seconds.

It may not operate correctly in the following cases:

* When the recroded sound is often interrupted as in a conversation tape.

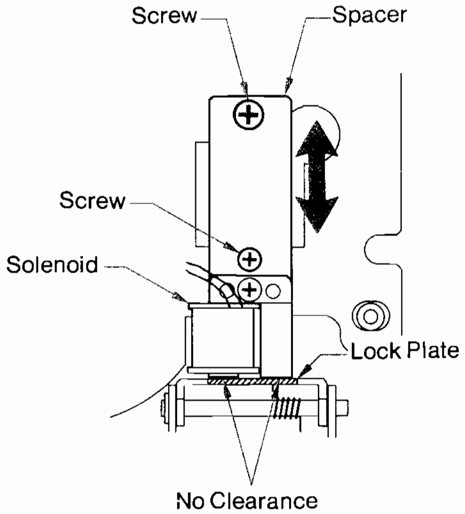
* When the silent space does not last long enough (less than four seconds).

* When there is noise in the silent space between two adjacent programs.

* When the unit is placed on a television set, AMSS may not operate correctly due to adverse effect of the TV signal. In this case, move the unit away from the television set.

If AMSS Solenoid is not correctly positioned, then the AMSS Switch may not function correctly, F.FWD or Rewind button may release while Automatic Music Select System is working, or a button may not lock. In such case, perform the following adjustments:

1. Remove the Chassis from the unit and loosen the two screws fastening the Spacer of the Solenoid. Then, adjust the Spacer by moving it in the direction of the arrow, so that the Lock Plate is tightly attached to the two absorption surfaces as illustrated.

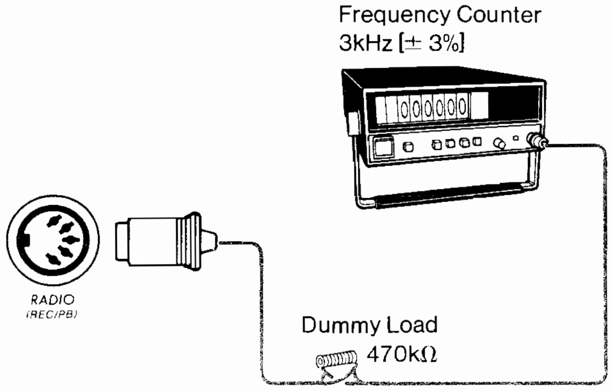


2. After the adjustment, tighten the screws fastening the Spacer. Set the unit in the playback mode and check that AMSS mechanism functions correctly as follows:
   - * Check if F.FWD button can be locked by pressing it.
   - * Check if Rewind button can be locked by pressing it.
3. Readjust the spacer position if either F.FWD or Rewind button cannot be locked or is soon released.
4. After the confirmation, secure the screws fastening the Spacer with paint or glue.

ADJUSTMENT (Continued)

TAPE SPEED ADJUSTMENT

1. Remove the battery compartment lid and connect a frequency counter to DIN socket as illustrated. Then, insert a 3kHz test tape (Example: TEAC MTT-111) into the cassette compartment.

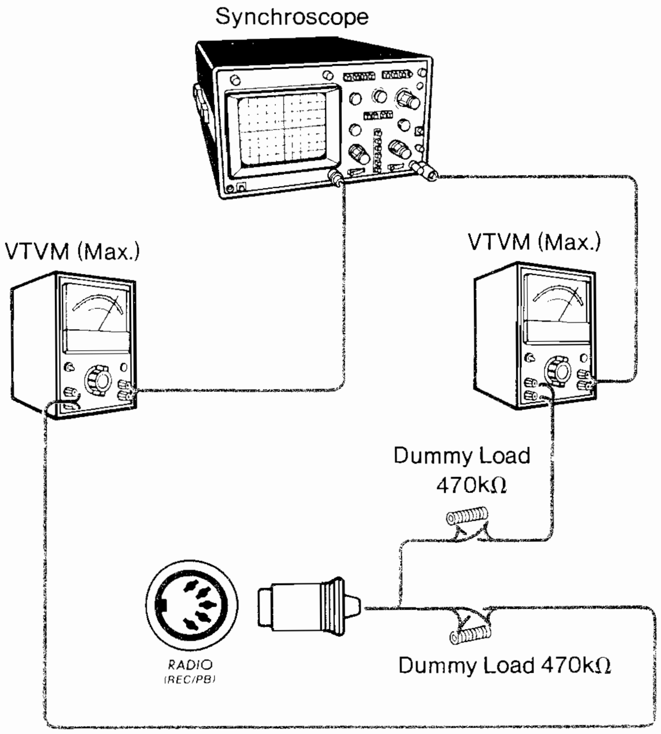

Frequency Counter
3kHz [± 3%]
RADIO
(REC/PB)
Dummy Load
470kΩ

2. While playing back the test tape, adjust the tape speed by turning the potentiometer P801 on the Motor Governor P.C.Board until the frequency counter reads 3kHz [± 3%].

HEAD AZIMUTH ADJUSTMENT

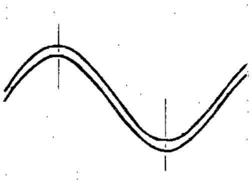
1. Connect a VTVM and a dualtrace synchroscope to DIN socket as illustrated. Then, set the synchroscope as follows:
   - * MODE .... CHOP (chopped)
   - * SOURCE .... INT. (CH1 or CH2)
   - * SWEEP MODE .... AUTO (automatic)

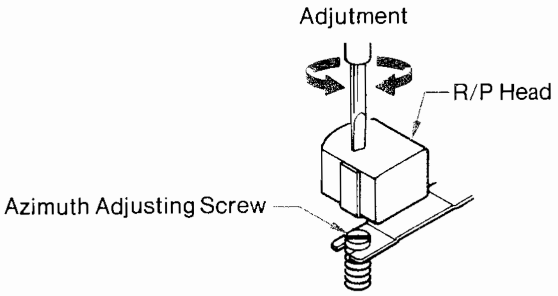
   NOTE:
   Adjust the field on the synchroscope with the VOLT. ADJ. and TIME ADJ.


Synchroscope
VTVM (Max.)
VTVM (Max.)
Dummy Load
470kΩ
RADIO
(REC/PB)
Dummy Load 470kΩ

2. Insert a 8kHz test tape (Example: TEAC MTT-113C) into the cassette compartment and play it back.

3. Slowly turn the azimuth adjusting screw until the amplitudes of both channel signal wave forms are at maximum and both wave forms overlap. Set to optimum at maximum reading of the VTVM.

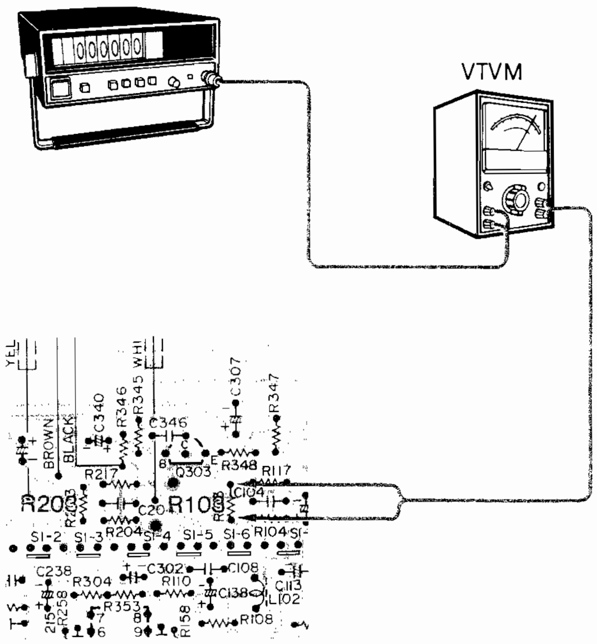



Adjutment
R/P Head
Azimuth Adjusting Screw

4. After the adjustment, secure the azimuth adjusting screw with paint or glue.

OSCILLATION FREQUENCY ADJUSTMENT

1. Connect a VTVM across the Resistor R103 or R203 on the P.C.Board and then, a frequency counter to output terminals of the VTVM as illustrated.

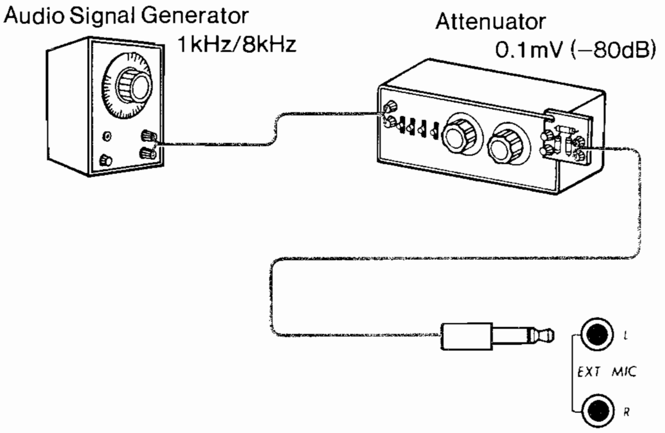

Frequency Counter 61kHz
VTVM
YEL
WHI
BROWN
BLACK
C340
R346
R345
C346
C307
R347
Q303
R348
R117
R217
R203
R103
C104
C204
R204
SI-2
SI-3
SI-4
SI-5
SI-6
R104
C238
R304
C302
R110
C108
C113
C138
L102
R258
R353
R158
R108

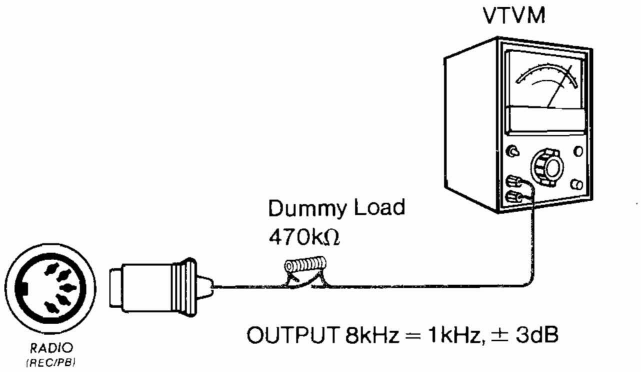
ADJUSTMENT (Continued)

2. Set the unit in the recording mode. Adjust the core of the OSC Transformer T301 by turning it until the frequency counter reads 61 kHz.

RECORDING BIAS ADJUSTMENT

1. Connect an audio signal generator and an attenuator to the left channel microphone jack, and a VTVM to the left channel output terminal of DIN socket as illustrated.





OUTPUT 8kHz = 1 kHz, ± 3dB

2. Set the unit in the recording mode and feed the signals of 1 kHz and 8kHz from the audio signal generator at 0.1 mV (−80dB). Then, alternately record them on the tape several times.
3. While playing back the recorded signals, check that the 8kHz signal output is identical to the 1 kHz signal output or the deviation is ± 3dB on the VTVM.
4. If necessary, adjust the potentiometer (P101) and re-check the output of each signal by playing back the signals after recording operation for the signals.
5. Repeat the above adjustment until the specified output is obtained.

RIGHT CHANNEL

Connect the audio signal generator and the attenuator to the right channel microphone jack, and the VTVM to the right channel output terminal of DIN socket. Then, adjust the potentiometer (P201) for the right channel by following the same procedure as in "LEFT CHANNEL".

TUNER ADJUSTMENT

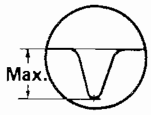
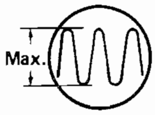
EQUIPMENT REQUIRED

- AM Standard Signal Generator
- FM Standard Signal Generator
- Generator Scope
- Stereo Signal Generator
- Loop Antenna
- Dummy Antenna (30Ω /10pF) for SW
- Dummy Antenna (75Ω , unbalanced type) for FM
- VTVM
- Frequency Counter
- Oscilloscope
- Dummy Load (3.3Ω)
- Alignment Tool
- Before performing the adjustment, set the switches and controls as follows:
  - Function Switch .... RADIO ON
  - Mode Switch .... MONO
  - Tone Controls .... "0" (click position)
  - Volume Controls .... Center

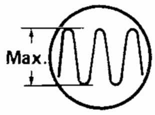
NOTE:
Use an alignment tool with plastic grip for all adjustments.

MW ALIGNMENT

Standard Test Frequency 400Hz and Modulation 30% at AM

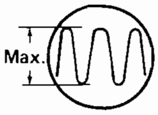
Step	Alignment	Connections		Frequency of Signal Generator	Tuning Dial Setting	Adjustments	Remarks
		INPUT	OUTPUT				
1	Calibration of IF for AM	Connect loop antenna to output terminal of gene-scope. Place loop antenna 60cm away from bar antenna.	Connect input terminal of gene-scope to detector output terminals (TP9 or TP10).	460kHz	Low End	T4, T5 and T6	Obtain symmetrical curve and maximum amplitude. 
2	Calibration of Tuning Range	Connect loop antenna to output of AM signal generator. Place loop antenna 60cm away from bar antenna.	Connect VTVM with 3.3Ω dummy load and oscilloscope to Ext. speaker jack.	510kHz		T9	Obtain sine-wave of 400Hz and maximum amplitude. 
3				1,670kHz	High End	TC4	
4	Adjustment of Tracking			600kHz	600kHz	L4-1 (bar ant. coil)	
5				1,400kHz	1,400kHz	TC3	
6	Repeat the above steps until no further change is noted in any of the adjustments.						

LW ALIGNMENT

Step	Alignment	Connections		Frequency of Signal Generator	Tuning Dial Setting	Adjustments	Remarks
		INPUT	OUTPUT				
1	Calibration of Tuning Range	Connect loop antenna to output of AM signal generator. Place loop antenna 60cm away from bar antenna.	Connect VTVM with 3.3Ω dummy load and oscilloscope to Ext. speaker jack.	147kHz	Low End	T10	Obtain sine-wave of 400Hz and maximum amplitude. 
2				365kHz	High End	TC5	
3	Adjustment of Tracking			170kHz	170kHz	L4-2 (bar ant. coil)	
4				310kHz	310kHz	TC6	
5	Repeat the above steps until no further change is noted in any of the adjustments.						

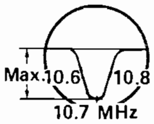
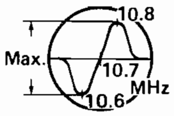
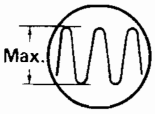
TUNER ADJUSTMENT (Continued)

SW ALIGNMENT

Step	Alignment	Connections		Frequency of Signal Generator	Tuning Dial Setting	Adjustments	Remarks
		INPUT	OUTPUT				
1	Calibration of Tuning Range	Connect AM signal generator to antenna terminals (TP1 and TP2) through dummy antenna (30Ω /10pF).	Connect VTVM with 3.3Ω dummy load and oscilloscope to Ext. speaker jack.	5.7MHz	Low End	T8	Obtain sine-wave of 400Hz and maximum amplitude. 
2				18.7MHz	High End	TC2	
3	Adjustment of Tracking			6.5MHz	6.5MHz	T7	
4				17.0MHz	17.0MHz	TC1	
5	Repeat the above steps until no further change is noted in any of the adjustments.						

FM ALIGNMENT

Standard test frequency 400Hz and deviation 22.5kHz

Step	Alignment	Connections		Frequency of Signal Generator	Tuning Dial Setting	Adjustments	Remarks
		INPUT	OUTPUT				
1	Calibration of IF	Place output of gene-scope on Trap Coil (L3).	Connect input terminal of gene-scope to detector output terminal (TP9 or TP10).	10.7MHz	Low End	Turn T3(blue core) fully counter-clockwise T1 and T2.	Obtain symmetrical curve and maximum amplitude. 
2						T3 (blue core)	Obtain **S** curve and maximum amplitude. 
3	Calibration of Tuning Range	Connect FM signal generator to antenna terminals (TP1 and TP2) through dummy antenna (75Ω, unbalanced type).	Connect VTVM with 3.3Ω dummy load and oscilloscope to Ext. speaker jack.	87.4MHz		L3	Obtain sine-curve and maximum amplitude. 
4				108.35MHz	High End	PTC2	
5	Adjustment of Tracking			90MHz	90MHz	L1	
6				106MHz	106MHz	PTC1	
7	Repeat the above steps until no further change is noted in any of the adjustments.						

FM MPX (Multiplex) ADJUSTMENT

38kHz (V.C.O.) ADJUSTMENT

1. Connect a Frequency counter to the sixth pin (Test Point TP12) in IC2 (TA7343P).

2. Adjust the potentiometer (P1) until the oscillation frequency of IC2 becomes 38kHz (± 20Hz).

DIAL CORD STRINGING

1. Mount the Radio Tuner P.C.Board on the Radio Chassis and then, the Drum to the shaft of the variable capacitor.

2. Tie the dial cord of length 1,300mm and diameter $\phi 0.5$ to the spring and hook the spring to the illustrated position of the drum.

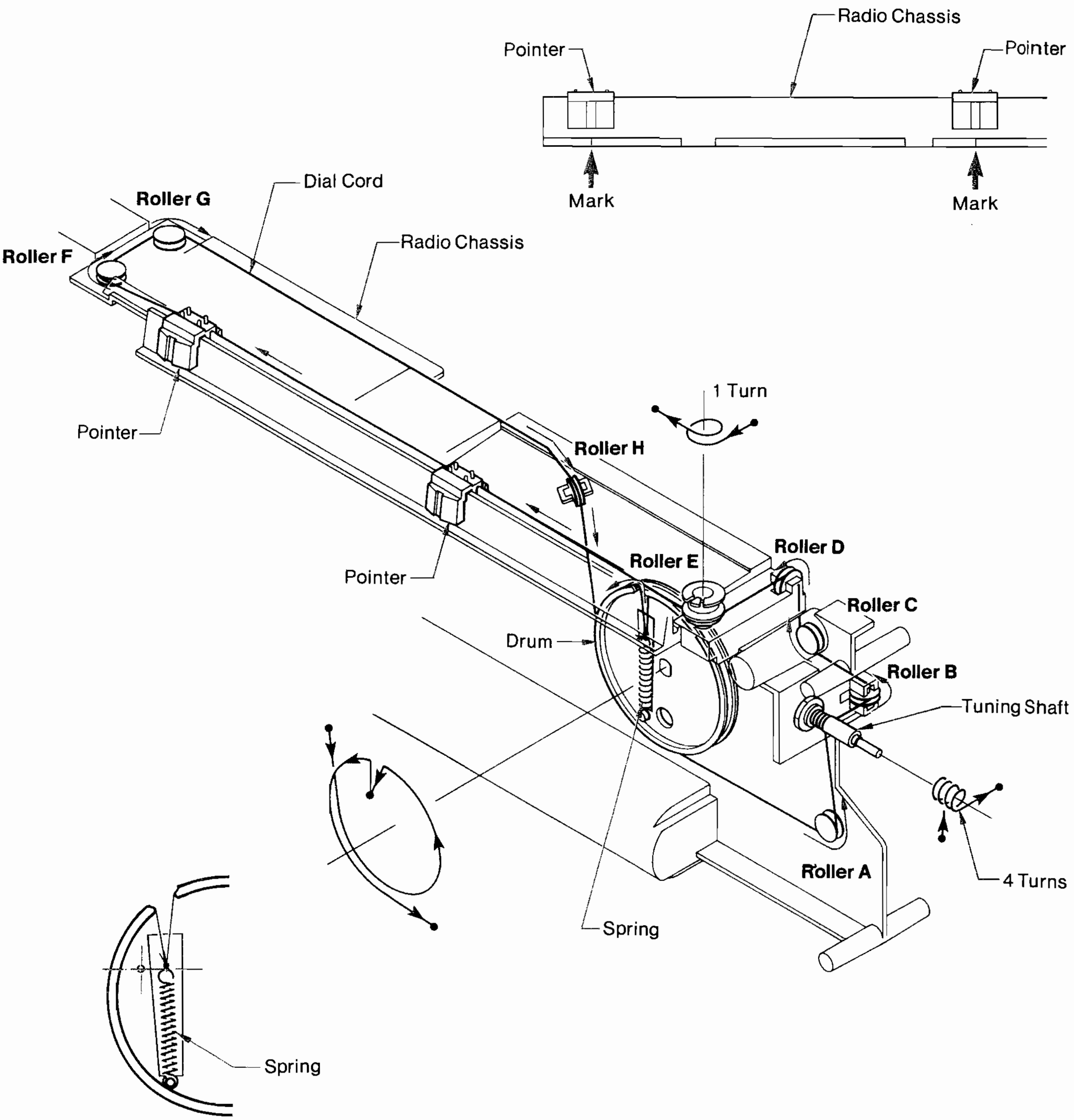
3. Engage the dial cord as illustrated in the following order. Drum → Roller A → Tuning Shaft (4 turns) → Roller B → Roller C → Roller D → Roller E (1 turn) → Roller F → Roller G → Roller H → Drum → Spring

4. Hook the dial cord to the spring and tie the cord where the spring tip extends to the mark on the drum.

5. Secure the point where the spring is hooked to the drum and the knot in the dial cord with paint or glue.

6. Turn the Tuning Shaft counterclockwise until it stops and set pointers over each mark on the Radio Chassis as illustrated. Then, fix the pointers there.

7. Apply white lacquer to the pointer to secure them.


Radio Chassis
Pointer
Pointer
Mark
Mark
Dial Cord
Roller G
Roller F
Radio Chassis
Pointer
1 Turn
Roller H
Pointer
Roller D
Roller E
Roller C
Drum
Roller B
Tuning Shaft
Roller A
4 Turns
Spring
Spring

Extend the spring to the center of the mark.

PARTS LIST

Ref. No.	Part No.	Description	Q'ty
	PACKAGE		
	141 2 1719 20300	Handle	1
	141 6 1419 64101	Individual Carton	1
	141 6 1449 80800	Styrofoam Case, Top	1
	141 6 1449 80900	Styrofoam Case, Bottom	1
	141 6 2519 14790	Poly Cover	1
	141 6 3119 19300	Reinforce Handle	1
	141 6 4559 00100	Serial No. Sheet	3
	ACCESSORIES		
	4 2419 72492	Cassette	1
	4 2439 70310	Power Cord	1
	141 6 2519 25035	Poly Cover 250 x 350	1
	141 6 4729 07400	Caution Label	1
	141 6 4729 16700	Caution Label	1
	141 6 4729 35700	FTZ Notice	1
	142 6 4119 31554	Instruction Manual	1
	CABINET		
	4 2359 70990	RT Pin Socket	6
CN5	4 2359 75725	Connector 4P Assy	1
	4 2369 73650	Connector 1P	1
	141 2 2899 26400	Adhesive Film	5
	141 2 2899 25300	Adhesive Film	3
CA1	141 2 1639 49300	Fine Tuning Knob	1
CA2	141 2 1639 49200	Tuning Knob	1
CA4	141 2 1639 49000	Volume Knob	1
CA5	141 2 3529 35500	Spacer	2
CA6	141 2 1639 49400	Volume Knob, Right	1
CA7	141 2 1639 49100	Tone Knob	2
CA8	141 2 2719 18000	Handle Holder	2
CA9	141 2 2719 17900	Handle Holder	2
CA10	141 0 1719 10300	Handle Assy	1
CA11	141 2 1639 48900	Volume Knob	1
CA12	141 2 2419 27300	Sheet, Bottom	1
CA13	141 2 4219 14800	Screw	3
CA14	141 2 4459 30100	Cushion, Battery	1
CA15	141 2 2419 27200	Sheet, Bottom	1
CA16	141 2 1339 28000	Battery Lid	1
CA17	141 2 1419 09880	Rating Plate	1
CA18	141 2 4219 09800	Screw	5
CA19	141 2 1119 81201	Cabinet Bottom	1
CA20	4 2379 70650	Ring Terminal	2
CA21	141 2 4219 11200	Screw	1
CA22	4 2449 70350	Rod Antenna	1
CA23	141 2 1649 19600	Knob, Band Selector	1
CA24	141 2 1249 32600	Clear Cassette Lid	1
CA25	141 2 8529 06200	Spring, Cassette Lid	1
CA26	141 2 1539 14400	Cassette Lid Panel, Right	1
CA27	141 2 1429 10900	Badge	1
CA28	141 2 1539 14300	Cassette Lid Panel	1
CA29	141 2 4569 04200	Ring	1
CA30	141 2 4469 42100	Cushion	2
CA31	141 2 1249 32701	Cassette Lid	1
CA32	141 2 1539 14500	Cassette Lid Panel, Left	1
CA33	141 2 8539 44000	Spring, Cassette Hold	2
CA34	141 2 1749 03700	Leg	2
CA35	141 2 1659 04501	Switch Button	1
CA36	141 2 8559 04000	Spring, Switch	4
CA37	141 2 1659 04500	Switch Button	1
CA38	141 2 1219 22400	Indicator Panel	1
CA39	141 2 1659 04800	Reset Button	1

Ref. No.	Part No.	Description		Q'ty
CA40	141 2 8559 04100	Spring, Reset Button		2
CA41	141 2 4569 00500	Washer, Battery Holder		2
CA42	141 2 1149 28300	Net, Mike		1
CA43	141 2 4459 29300	Cushion		2
CA44	141 0 1119 86501	Completed Cabinet Top		1
CA45	202 5 8200 20213	LED, SLP202C (Tuning) [D15]		1
CA46	4 2269 37321	PCB, Tuning LED		1
CA47	141 0 5519 09500	Eject Gear Assy		1
CA48	141 2 7419 77200	Cassette Lid Lock		1
CA49	4 2029 72080	LED, SLP-156B (FM Stereo) [D16]		1
CA50	4 2269 37300	PCB, Stereo LED		1
CA51	4 1329 78040	Indicator P.C.B. Assy [**See PCB5**]		1
CA52	4 1519 71371	Speaker (6.4Ω) [SP101 & SP201]		2
CA53	4 1519 71370	Speaker (6.4Ω) [SP102 & SP202]		2
CA54	141 2 3729 03500	Bracket, Speaker Fix		8
CA55	141 2 3729 03400	Bracket, Speaker Fix		8
CX1	101 3 1302 60814	Screw, Pan Hd.	+M2.6x8	1
CX2	101 3 1203 00818	Screw, Flat Hd.	+M3.0x8	4
CX3	102 3 1302 60611	Screw, Pan Hd. Tapping-1	+M2.6x6	2
CX4	102 3 1303 01011	Screw, Pan Hd. Tapping-1	+M3.0x10	16
CX5	102 3 1702 00711	Screw, Bind Hd. Tapping-1	+M2.0x7	2
CX6	102 3 1702 00811	Screw, Bind Hd. Tapping-1	+M2.0x8	4
CX7	102 3 1702 60611	Screw, Bind Hd. Tapping-1	+M2.6x6	1
CX8	102 3 1703 01218	Screw, Bind Hd. Tapping-1	+M3.0x12	1
CX9	103 3 1702 60811	Screw, Bind Hd. Tapping-2	+M2.6x8	4
CX10	103 3 1202 60618	Screw, Flat Hd. Tapping-2	+M2.6x6	2
CX11	110 3 9321 00102	Fiber Washer	M3.2x10.0x1.0	2
	RADIO CHASSIS			
CN3	4 2359 75751	Connector 3P Assy		1
	141 2 2899 14000	Adhesive Sheet		1
DC1	141 2 3119 17000	Radio Chassis		1
DC2	141 2 8259 05900	Dial Roller		3
DC3	141 2 4179 00700	Nut, Dial Shaft		1
DC4	4 1539 70661	Microphone [BM101 & BM201]		2
DC5	141 2 5519 03300	Dial Roller A		4
DC6	141 2 4219 14000	Screw		4
DC7	4 2249 70300	Fine Tuner [FT1]		1
DC8	141 2 4729 04000	Lug		1
DC9	141 2 5389 04000	Drum		1
DC10	141 2 8519 06700	Spring, Cassette Case Lever B		1
DC11	141 2 3519 60700	Counter Bracket		1
DC12	141 2 5649 20700	Belt		1
DC13	141 2 8119 10900	Counter		1
DC14	141 2 8519 29400	Spring, Stop Lever		1
DC15	141 2 3519 57701	Bracket Eject Arm		1
DC16	141 2 5649 20800	Belt		1
DC17	141 2 5519 46700	Pulley		1
DC18	141 2 5529 16300	Post, Pulley		1
DC19	141 2 3689 08300	Radiator, IC		1
DC20	4 1329 78061	Power Supply P.C.B. Assy [**See PCB6**]		1
DC21	141 2 4359 14402	Socket Cover		1
DC22	⚠ 4 2359 72800	AC Socket		1
DC23	4 2319 71990	Slide Switch (OSC) [S12]		1
DC25	⚠ 4 2319 72130	Slide Switch (Voltage Select) [S14]		1
DC26	141 2 5119 07701	Pointer		2
DC27	141 2 6619 04300	Pulley		1
DC28	141 2 4469 13800	Cushion		2
DC29	4 1329 78032	Jack P.C.B. Assy [**See PCB4**]		1
DC30	141 2 3679 31400	Jack Plate		1
DC31	4 2229 71750	Control Volume (Mike Mixing) [VR4]		1
DC32	141 2 3229 38000	Shield Plate, Volume		1
DC33	141 2 4459 30200	Cushion		1

PARTS LIST (Continued)

Ref. No.	Part No.	Description		Q'ty
DC34	141 2 3829 18000	Spring, Terminal		1
DC35	141 2 3829 06700	Terminal BAT, Anode		1
DC36	4 1329 78050	Volume Control P.C.B. Assy [**See PCB7**]		1
DC37	4 1329 78051	Bass Control P.C.B. Assy [**See PCB8**]		1
DC38	141 2 3829 20800	Sprig, Battery		1
DC39	4 1329 78020	Mike Mixing Jack P.C.B. Assy [**See PCB3**]		1
DC40	141 2 7419 83000	Switch Lever		3
DC41	141 2 1659 04700	Button Switch		3
DC42	141 2 4459 29200	Cushion		3
DC43	141 2 2419 26900	Veil		3
DC44	4 2519 73711	Power Trans [T302]		1
DC45	141 2 4729 04100	Lug		2
DC46	141 2 4219 11700	Screw		3
DC48	4 1329 78011	Amplifier P.C.B. Assy [**See PCB1**]		1
DC49	4 1259 71800	Radio Tuner P.C.B. Assy [**See PCB2**]		1
DC50	201 2 5020 00401	Bush D		1
DC51	141 2 3229 37500	Shield Plate		1
DC52	4 2379 70650	Ring Terminal		1
DY1	101 3 1302 60511	Screw, Pan Hd.	+M2.6x5	3
DY2	101 3 1302 61011	Screw, Pan Hd.	+M2.6x10	2
DY3	101 3 1702 00311	Screw, Bind Hd.	+M2.0x3	2
DY4	102 3 1302 60811	Screw, Pan Hd. Tapping-1	+M2.6x8	5
DY5	102 3 1302 61011	Screw, Pan Hd. Tapping-1	+M2.6x10	1
DY6	102 3 1303 00611	Screw, Pan Hd. Tapping-1	+M3.0x6	1
DY7	102 3 1303 01011	Screw, Pan Hd. Tapping-1	+M3.0x10	3
DY8	102 3 1702 60611	Screw, Bind Hd. Tapping-1	+M2.6x6	1
DY9	103 3 1303 01214	Screw, Pan Hd. Tapping-2	+M3.0x12	2
DY10	103 3 1703 01011	Screw, Bind Hd. Tapping-2	+M3.0x10	2
DY11	143 3 1302 61211	Screw, Pan Hd. Tapping-B	+M2.6x12	4
DY12	112 3 1302 00082	E Ring	M2.0	1
DY13	112 3 1303 00082	E Ring	M3.0	1
DY14	103 3 1703 00811	Screw, Bind Hd. Tapping-2	+M3.0x8	2

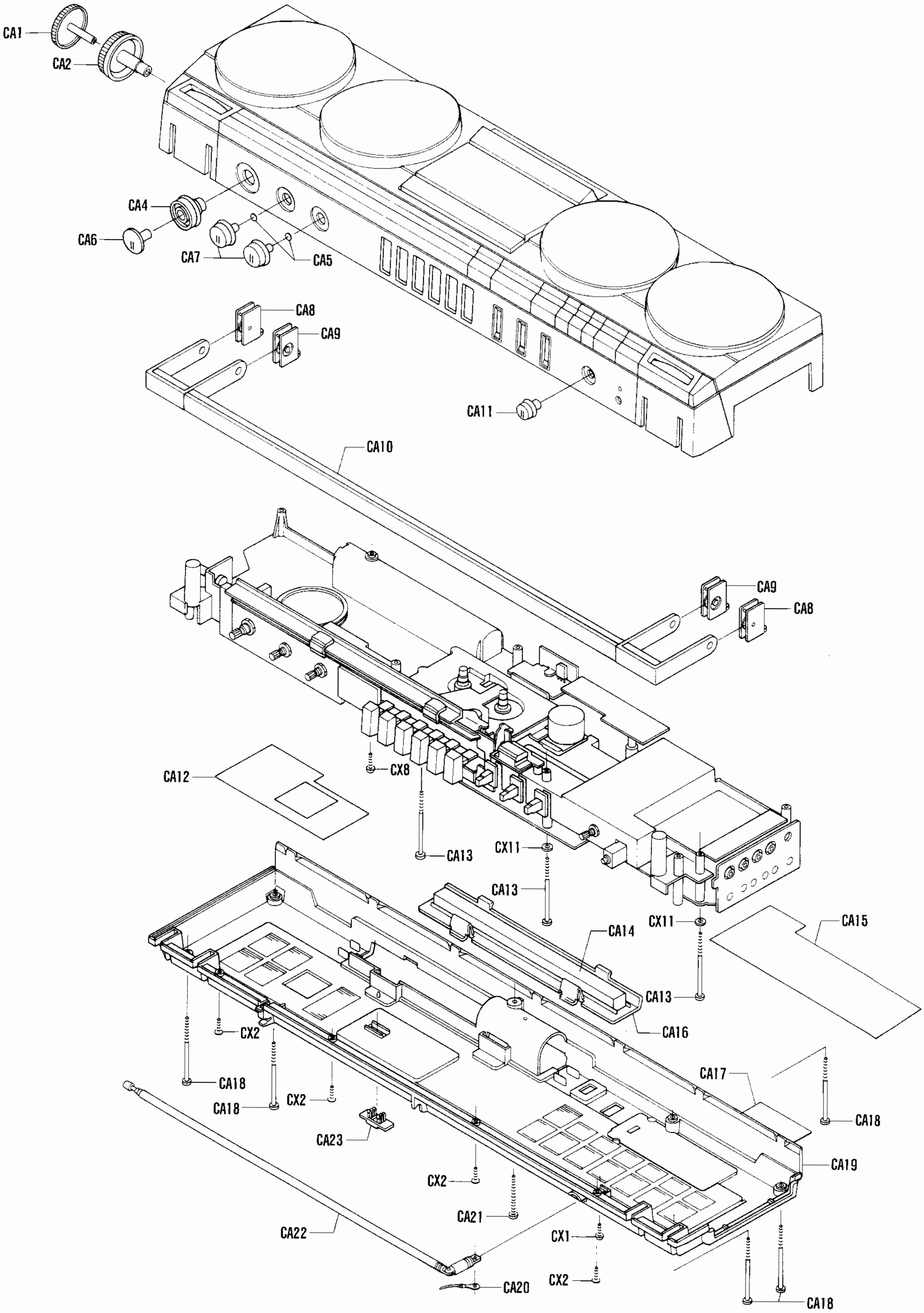
NOTES:

1. Parts order must contain Model Number, Part Number and Description.
2. Ordering quantity of screws and resistors must be multiple of 10 pcs.

PRODUCT SAFETY NOTICE

PRODUCT SAFETY SHOULD BE CONSIDERED WHEN A COMPONENT REPLACEMENT IS MADE IN ANY AREA OF AN UNIT. COMPONENTS INDICATED BY A MARK ⚠ IN THIS PARTS LIST AND THE SCHEMATIC DIAGRAM SHOW COMPONENTS WHOSE VALUE HAS SPECIAL SIGNIFICANCE TO PRODUCT SAFETY. IT IS PARTICULARLY RECOMMENDED THAT ONLY PARTS SPECIFIED ON THE FOLLOWING PARTS LIST BE USED FOR COMPONENT REPLACEMENT POINTED OUT BY THE MARK.

CABINET EXPLODED VIEW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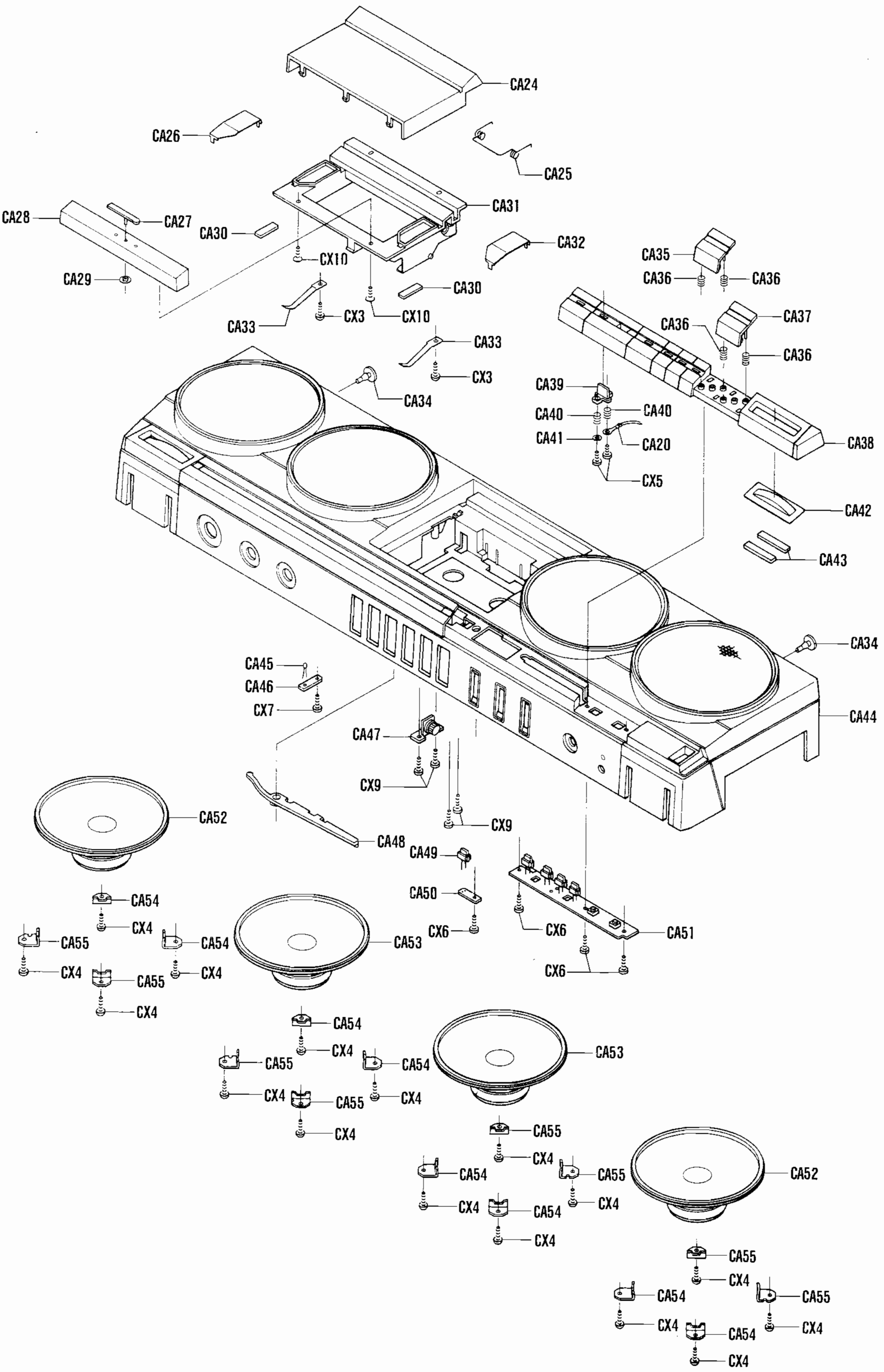
CABINET EXPLODED VIEW (Continued)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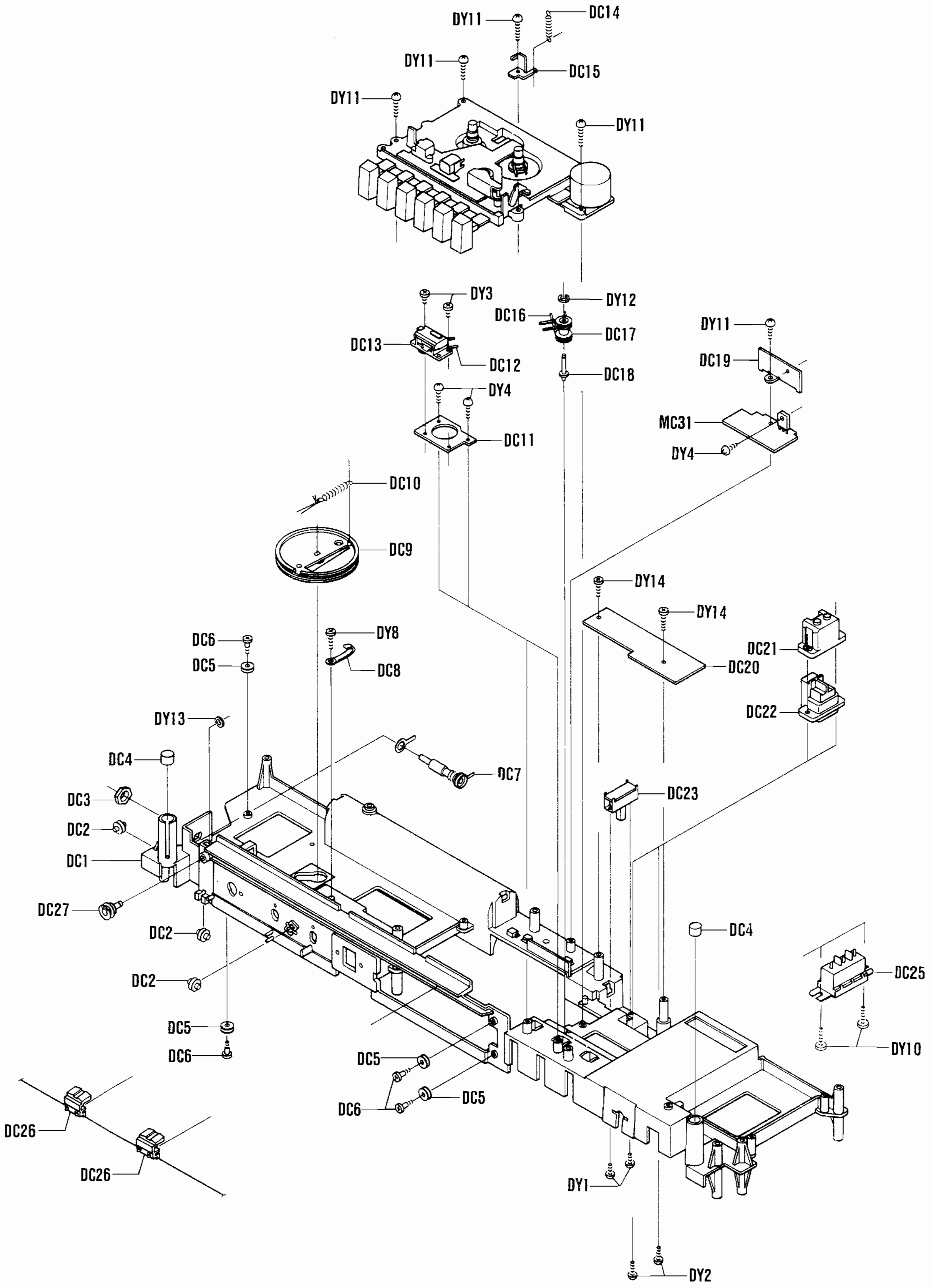
RADIO CHASSIS EXPLODED VIEW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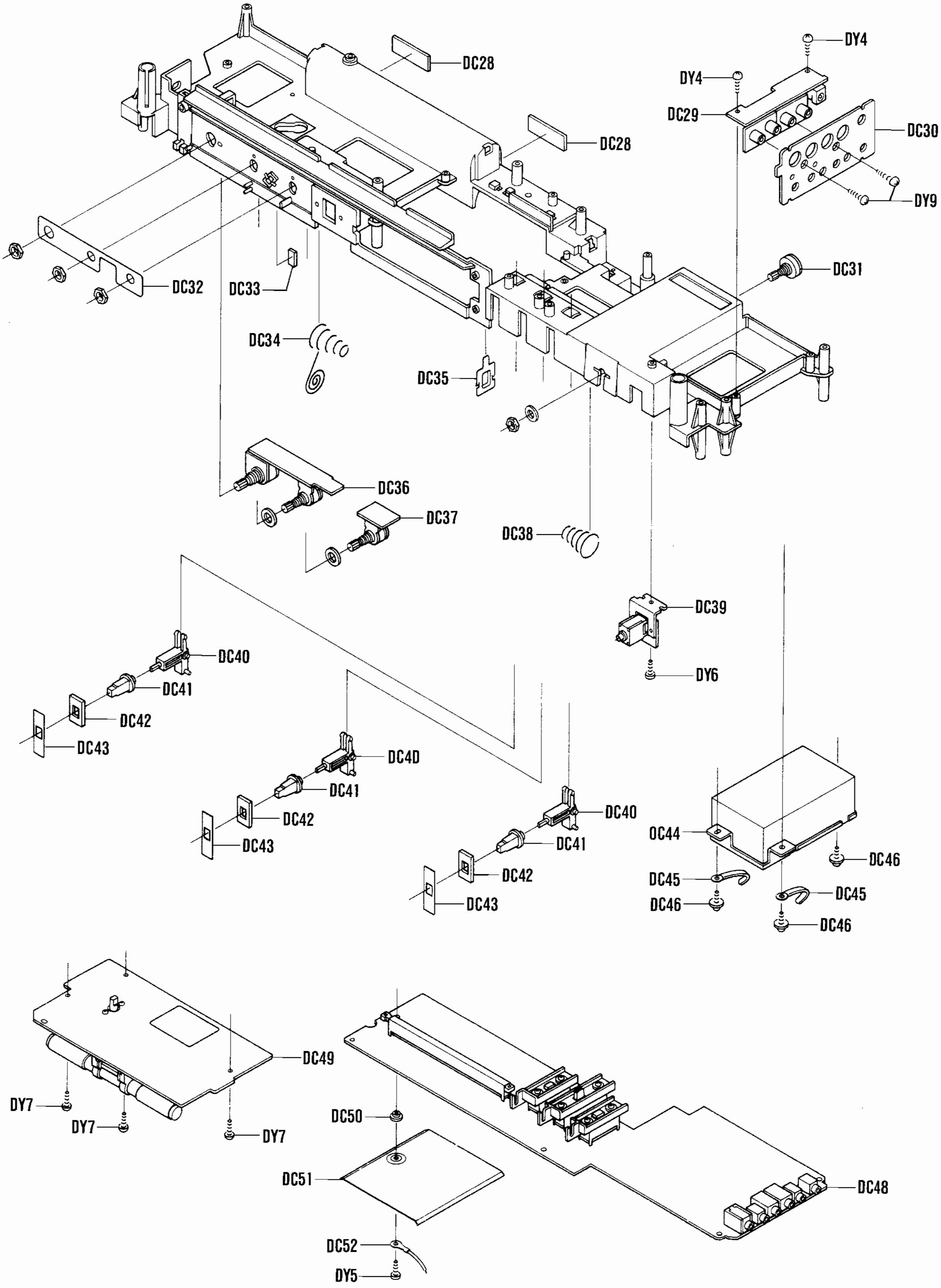
RADIO CHASSIS EXPLODED VIEW (Continued)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DC46
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DC45
DC46
DC49
DY7
DY7
DY7
DC50
DC51
DC48
DC52
DY5

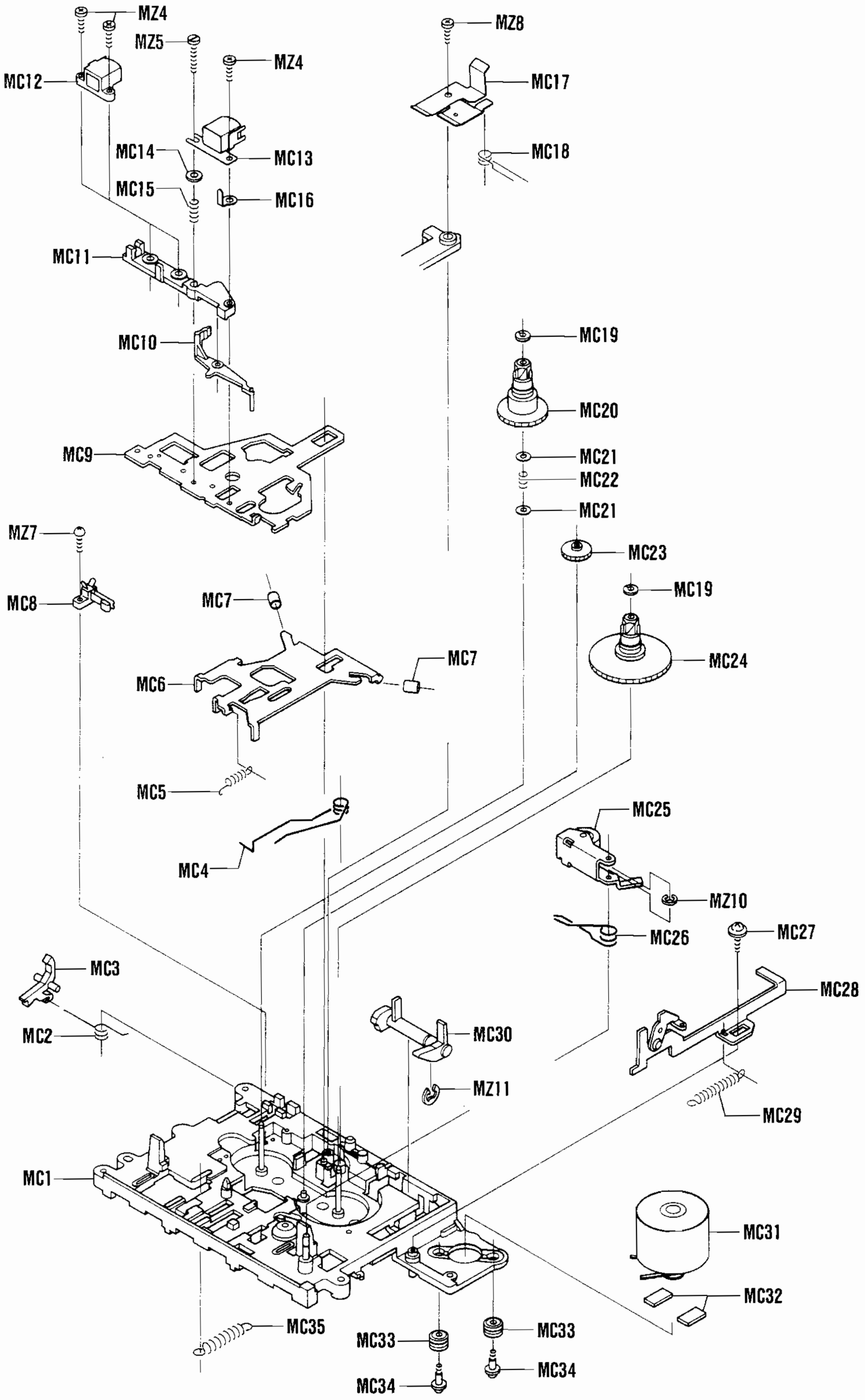
MECHANISM PARTS LIST

Ref. No.	Part No.	Description		Q'ty
	MECHANISM			
CN4	4 2359 75752	Connector 3P Assy		1
MC1	141 0 3119 19900	Chassis Assy		1
MC2	141 2 8519 97300	Spring, Interlock		1
MC3	141 2 8419 10400	Interlock Lever		1
MC4	141 2 8529 07300	Spring, Idler Arm		1
MC5	141 2 8549 08700	Spring, Brake		1
MC6	141 2 7149 05200	Brake Arm		1
MC7	141 2 4459 25200	Brake Cover		2
MC8	4 2319 72121	Leaf Switch (Power) [S13]		1
MC9	141 2 7319 43202	Slide Base		1
MC10	141 2 7419 68800	Sensor Lever		1
MC11	141 2 3529 29400	Spacer, Head		1
MC12	4 2429 71880	Erase Head [HD2]		1
MC13	4 2429 71674	R/P Head [HD1]		1
MC14	141 2 4569 05700	Washer		1
MC15	141 2 8519 47400	Spring, Head		1
MC16	141 2 4729 01900	Lug		1
MC17	141 2 8539 41101	Spring, Cassette		1
MC18	141 2 8519 96901	Spring, Cassette-up		1
MC19	141 2 4539 15700	Washer		2
MC20	141 0 5319 05400	Supply Reel Assy		1
MC21	141 2 4539 09400	Washer		3
MC22	141 2 8559 00100	Spring, Supply		1
MC23	141 2 5519 36400	F.FWD Gear		1
MC24	141 0 5319 05301	Take-up Reel Assy		1
MC25	141 0 5419 03200	Pinch Roller Assy		1
MC26	141 2 8519 97200	Spring, Pinch Roller		1
MC27	141 2 4219 13201	Screw w/Washer		1
MC28	141 0 7319 24200	Eject Plate Assy		1
MC29	141 2 8519 38700	Spring, Head Lever		1
MC30	141 2 7419 74900	Cassette-up Lever		1
MC31	4 5279 71133	Motor Assy with Governor [**See M1**]		1
MC32	141 2 4469 31300	Cushion		2
MC33	141 2 4459 26800	Cushion, Motor		2
MC34	141 2 4219 23300	Screw		2
MC35	141 2 8549 10700	Spring, Slide Base		1
MC36	141 2 4539 17200	Washer		1
MC37	141 2 7319 49300	Lock Plate		1
MC38	141 2 7419 75500	Shut-off Lever		1
MC39	141 2 1659 04605	Pause Button		1
MC40	141 0 7319 25200	Pause Rod Assy		1
MC41	141 2 4219 12100	Screw w/Washer		1
MC42	141 2 1659 04603	Stop Button		1
MC43	141 2 7319 49500	Stop/Eject Rod		1
MC44	141 2 7419 75800	Pause Lock Lever		1
MC45	141 2 8529 05700	Spring, Pause Lock		1
MC46	141 2 4539 15800	Washer		2
MC47	141 2 8529 05800	Spring, Lock Lever		1
MC48	141 2 7419 76500	Lock Lever		1
MC49	141 2 8549 10800	Spring, Sensor		1
MC50	141 2 8519 25400	Spring, Click		1
MC51	141 2 8549 10600	Spring, Play Rod		1
MC52	141 2 8529 05500	Spring, Rod		1
MC53	141 2 8529 05400	Spring, Rod		1
MC54	141 2 8529 05401	Spring, Pause Rod		1
MC55	141 2 8529 05600	Spring, Record Stopper		1
MC56	141 2 5519 36600	Capstan Gear		1
MC57	141 2 8519 98200	Spring, Flywheel		1
MC58	141 2 5649 19700	Capstan Belt		1
MC59	141 0 5219 07202	Flywheel Assy		1
MC60	141 0 3519 20100	Flywheel Support Assy		1
MC61	141 2 4729 04000	Lug		1
MC62	141 2 8529 07200	Spring, Ground		1
MC63	4 2379 70650	Ring Terminal		1
MC64	4 2649 70470	AMSS Solenoid [SL1]		1
MC65	141 2 3769 12100	Spacer, Plunger		1
MC66	141 2 4539 12100	Spindle Washer		2
MC67	141 2 5519 36701	Idler Pulley Gear		1
MC68	141 0 7439 10400	Idler Arm Assy		1
MC69	141 2 8259 09100	Roller		1
MC70	141 2 8519 33000	Spring, Index Lock Lever		1
MC71	141 0 7439 09200	Take-up Arm Assy		1
MC72	141 2 7519 55300	Spindle, Lock Lever		1
MC73	141 2 5519 36500	Take-up Gear		1
MC74	141 2 3519 57100	Bracket Plate		1
MC75	141 2 7319 49700	F.FWD Rod		1
MC76	141 2 1659 04602	F.FWD Button		1
MC77	141 2 1659 04601	Rewind Button		1
MC78	141 2 7319 49800	Rewind Rod		1
MC79	141 2 1659 04600	Play Button		1
MC80	141 2 7319 49900	Play Rod		1
MC81	141 2 1659 04604	Record Button		1
MC82	141 2 7319 50000	Record Rod		1
MC83	4 2319 74990	Leaf Switch (AMSS A) [S9]		1
MC84	4 2319 72570	Leaf Switch (AMSS B) [S10]		1
MC85	141 2 8429 06100	Record Switch Lever		1
MC86	141 2 8519 78000	Spring, Stop		1
MC87	141 2 7439 26200	Record Stopper Lever		1
MZ1	101 3 1302 00411	Screw, Pan Hd.	+M2.0x4	1
MZ2	101 3 1302 00811	Screw, Pan Hd.	+M2.0x8	1
MZ3	101 3 1702 00411	Screw, Bind Hd.	+M2.0x4	1
MZ4	101 3 1702 00611	Screw, Bind Hd.	+M2.0x6	3
MZ5	101 3 2502 00611	Screw, Cylinder Hd.	-M2.0x6	1
MZ6	102 3 1302 00611	Screw Pan Hd. Tapping-1	+M2.0x6	1
MZ7	103 3 1302 00811	Screw, Pan Hd. Tapping-2	+M2.0x8	3
MZ8	143 3 1702 60811	Screw, Bind Hd. Tapping-B	+M2.6x8	4
MZ9	112 3 1301 20082	E Ring	M1.2	1
MZ10	112 3 1302 00082	E Ring	M2.0	1
MZ11	112 3 1304 00082	E Ring	M4.0	1
MZ12	112 3 1706 30040	Grip Ring	M6.3	1

NOTES:

1. Parts order must contain Model Number, Part Number and Description.
2. Ordering quantity of screws and resistors must be multiple of 10 pcs.

MECHANISM EXPLODED VIEW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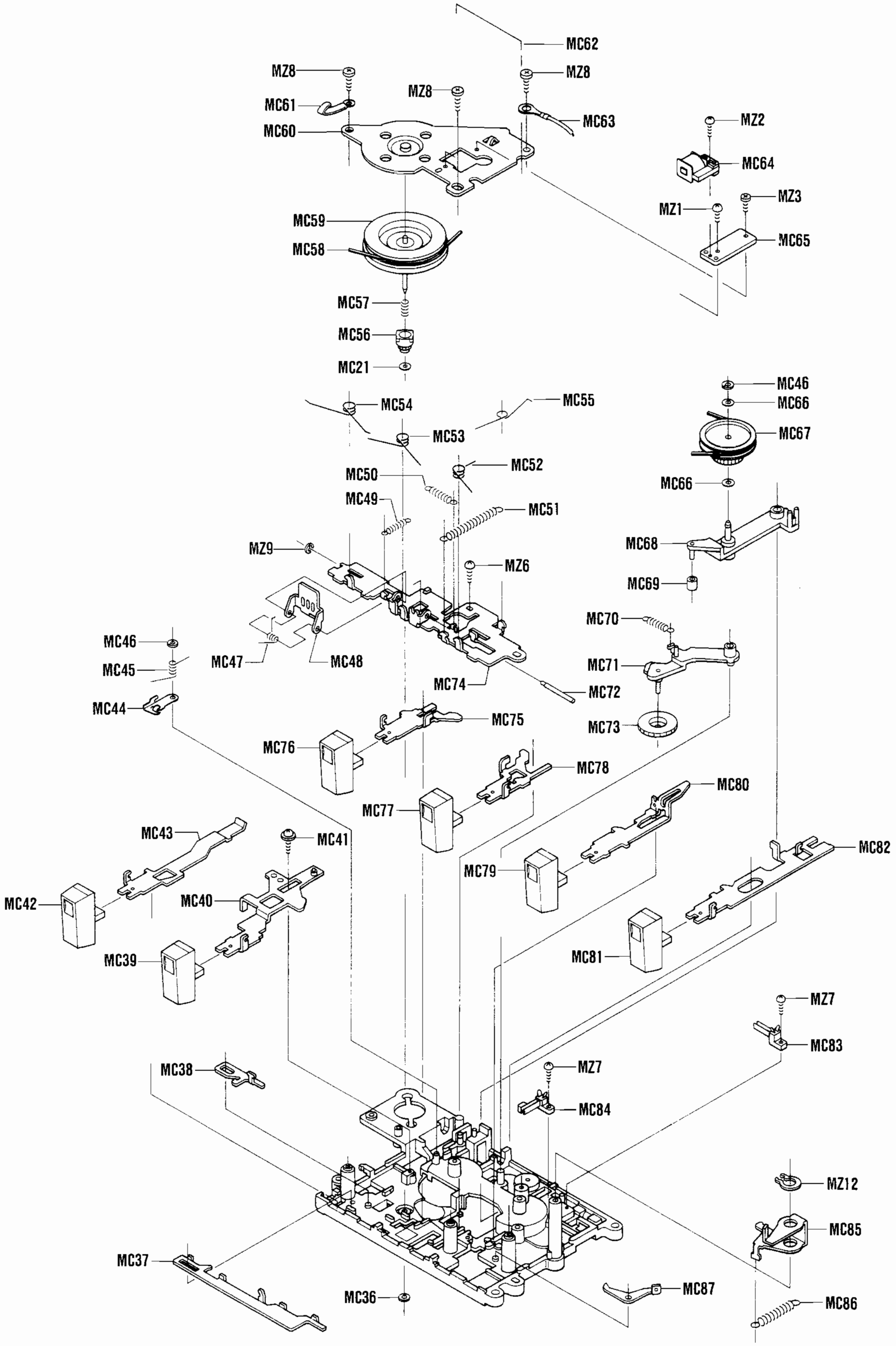
MECHANISM EXPLODED VIEW (Continued)



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MC38
MC84
MZ12
MC85
MC37
MC87
MC36
MC86

P.C.BOARD PARTS LIST

Ref. No.	Part No.	Description	Q'ty
	AMPLIFIER P.C.B. ASSY		
PCB1	4 1329 78011	Amplifier P.C.B. Assy	1
	141 2 3529 08600	Spacer, Record Lock	6
	141 2 3689 09300	Radiator IC	1
	141 2 4729 04700	Staple, 10mm	12
	141 2 4729 05000	Staple, 5mm	24
	141 2 7319 54200	Plate Switch	1
	141 2 7319 54300	Plate Switch	1
	141 2 7319 54400	Plate Switch	1
CN1	4 2369 73671	Plug 8P	1
CN2	4 2369 73670	Plug 3P	1
CN3	4 2369 73130	Connector 3P	1
CN4	4 2369 73130	Connector 3P	1
CN5	4 2369 73140	Connector 4P	1
S1	4 2319 73901	Slide Switch (Record/Play)	1
S2	4 2319 72811	Slide Switch (Tape Select)	1
S3	4 2319 75430	Slide Switch (Function)	1
S4	4 2319 72811	Slide Switch (Mode)	1
J1	4 2359 71780	Jack 1P (Ext. Mike, Left)	1
J2	4 2359 73470	1P Jack (Ext. Mike, Right)	1
J3	4 2359 75700	1P Jack 3.6 (Headphones, 1)	1
J4	4 2359 75700	1P Jack 3.6 (Headphones, 2)	1
J5	4 2359 73470	1P Jack (Ext. Speaker, Left)	1
J6	4 2359 73470	1P Jack (Ext. Speaker, Right)	1
T301	4 2589 71820	OSC Trans	1
L101	4 2729 70290	Coil (33mH)	1
L102	4 2729 70350	Peaking Coil (1mH)	1
L201	4 2729 70290	Coil (33mH)	1
L202	4 2729 70350	Peaking Coil (1mH)	1
P101	4 2229 72971	Potentiometer (B-100kΩ)	1
P201	4 2229 72971	Potentiometer (B-100kΩ)	1
D101	4 2029 71440	Diode, 1SS95	1
D102	4 2029 71440	Diode, 1SS95	1
D103	4 2029 71440	Diode, 1SS95	1
D104	202 5 9110 18810	Diode, 1S 188	1
D105	202 5 9110 18810	Diode, 1S 188	1
D106	4 2029 71440	Diode, 1SS95	1
D107	4 2029 71440	Diode, 1SS95	1
D201	4 2029 71440	Diode, 1SS95	1
D202	4 2029 71440	Diode, 1SS95	1
D203	4 2029 71440	Diode, 1SS95	1
D204	202 5 9110 18810	Diode, 1S 188	1
D205	202 5 9110 18810	Diode, 1S 188	1
D206	4 2029 71440	Diode, 1SS95	1
D207	4 2029 71440	Diode, 1SS95	1
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D307	4 2029 71440	Diode, 1SS95	1
D308	4 2029 71440	Diode, 1SS95	1
D309	202 5 9600 44610	Diode, DS 446	1
D313	4 2029 71060	Diode, RD9.1	1
D314	4 2029 71040	Diode, RD5.6	1
D316	4 2029 71040	Diode, RD5.6	1
D317	4 2029 71440	Diode, 1SS95	1
D318	4 2029 71440	Diode, 1SS95	1
Q101	203 5 5100 53650	Transistor, 2SC 536	1
Q102	203 5 5251 57160	Transistor, 2SC1571	1
Q103	203 5 5100 53650	Transistor, 2SC 536	1
Q104	203 5 5100 53650	Transistor, 2SC 536	1
Q105	203 5 4921 01260	Transistor, 2SD1012	1

Ref. No.	Part No.	Description				Q'ty
Q201	203 5 5100 53650	Transistor, 2SC 536				1
Q202	203 5 5251 57160	Transistor, 2SC1571				1
Q203	203 5 5100 53650	Transistor, 2SC 536				1
Q204	203 5 5100 53650	Transistor, 2SC 536				1
Q205	203 5 4921 01260	Transistor, 2SD1012				1
Q301	203 5 5100 53650	Transistor, 2SC 536				1
Q302	203 5 5251 57160	Transistor, 2SC1571				1
Q303	203 5 5251 57160	Transistor, 2SC1571				1
Q304	203 5 5100 53650	Transistor, 2SC 536				1
Q305	203 5 5100 53650	Transistor, 2SC 536				1
Q306	203 5 5100 53650	Transistor, 2SC 536				1
Q307	203 5 5100 53650	Transistor, 2SC 536				1
Q308	203 5 5100 53650	Transistor, 2SC 536				1
Q309	203 5 6900 40060	Transistor, 2SD400				1
Q310	203 5 4570 73460	Transistor, 2SD 734				1
Q311	203 5 4570 73460	Transistor, 2SD 734				1
IC301	4 2069 71360	IC, TA7658P				1
IC302	4 2069 71670	IC, BA5402A				1
IC303	206 5 9417 51010	IC, LC7510				1
TH301	204 5 9000 00090	Thermister, SDT 09				1
C101	CM2 2 3500 K00SV	Mylar	0.022μF	50V	± 10%	1
C102	CC3 3 1500 KE00C	Ceramic	330pF	50V	± 10%	1
C103	CC2 2 1500 KE00C	Ceramic	220pF	50V	± 10%	1
C104	CC1 5 2500 KE00C	Ceramic	0.0015μF	50V	± 10%	1
C106	CC1 0 2500 KE00C	Ceramic	0.001μF	50V	± 10%	1
C107	CC2 2 2500 KE00C	Ceramic	0.0022μF	50V	± 10%	1
C108	CC1 2 2500 KE00C	Ceramic	0.0012μF	50V	± 10%	1
C109	CC3 3 1500 KE00C	Ceramic	330pF	50V	± 10%	1
C110	CD3 3 6100 0001V	Electrolytic	33μF	10V		1
C111	CM1 0 3500 K00SV	Mylar	0.01μF	50V	± 10%	1
C112	CC2 2 1500 KE00C	Ceramic	220pF	50V	± 10%	1
C113	CT2 2 4350 M00DV	Tantalume	0.22μF	35V	± 20%	1
C114	CD4 7 4500 0001V	Electrolytic	0.47μF	50V		1
C115	CC2 2 0500 KD00C	Ceramic	22pF	50V	± 10%	1
C116	CD4 7 5160 0001V	Electrolytic	4.7μF	16V		1
C117	CM2 2 3500 K00SV	Mylar	0.022μF	50V	± 10%	1
C118	CC4 7 2500 KE00C	Ceramic	0.0047μF	50V	± 10%	1
C119	CD1 0 6100 0001V	Electrolytic	10μF	10V		1
C120	CM2 2 3500 K00SV	Mylar	0.022μF	50V	± 10%	1
C121	CD1 0 5100 0001V	Electrolytic	1μF	10V		1
C122	CD1 0 5100 0001V	Electrolytic	1μF	10V		1
C129	CD4 7 4500 0001V	Electrolytic	0.47μF	50V		1
C130	CD3 3 6100 0001V	Electrolytic	33μF	10V		1
C131	CD1 0 7100 0001V	Electrolytic	100μF	10V		1
C132	CD1 0 8100 0001V	Electrolytic	1000μF	10V		1
C133	CM2 2 4500 J00TV	Mylar	0.22μF	50V	± 5%	1
C134	CC2 7 2500 KE00C	Ceramic	0.0027μF	50V	± 10%	1
C135	CC4 7 1500 KE00C	Ceramic	470pF	50V	± 10%	1
C136	CC2 2 1500 KD00C	Ceramic	220pF	50V	± 10%	1
C137	CD1 0 4500 0002V	Electrolytic	0.1μF	50V		1
C138	CD4 7 5160 0001V	Electrolytic	4.7μF	16V		1
C139	CT2 2 4350 M00DV	Tantalume	0.22μF	35V	± 20%	1
C140	CC1 0 1500 KE00C	Ceramic	100pF	50V	± 10%	1
C141	CD1 0 6160 0002V	Electrolytic	10μF	16V		1
C201	CM2 2 3500 K00SV	Mylar	0.022μF	50V	± 10%	1
C202	CC3 3 1500 KE00C	Ceramic	330pF	50V	± 10%	1
C203	CC2 2 1500 KE00C	Ceramic	220pF	50V	± 10%	1
C204	CC1 5 2500 KE00C	Ceramic	0.0015μF	50V	± 10%	1
C206	CC1 0 2500 KE00C	Ceramic	0.001μF	50V	± 10%	1
C207	CC2 2 2500 KE00C	Ceramic	0.0022μF	50V	± 10%	1
C208	CC1 2 2500 KE00C	Ceramic	0.0012μF	50V	± 10%	1
C209	CC3 3 1500 KE00C	Ceramic	330pF	50V	± 10%	1
C210	CD3 3 6100 0001V	Electrolytic	33μF	10V		1
C211	CM1 0 3500 K00SV	Mylar	0.01μF	50V	± 10%	1

P.C.BOARD PARTS LIST (Continued)

Ref. No.	Part No.	Description				Q'ty
C212	CC2 2 1500 KE00C	Ceramic	220pF	50V	±10%	1
C213	CT2 2 4350 M00DV	Tantalume	0.22μF	35V	±20%	1
C214	CD4 7 4500 0001V	Electrolytic	0.47μF	50V		1
C215	CC2 2 0500 KD00C	Ceramic	22pF	50V	±10%	1
C216	CD4 7 5160 0001V	Electrolytic	4.7μF	16V		1
C217	CM2 2 3500 K00SV	Mylar	0.022μF	50V	±10%	1
C218	CC4 7 2500 KE00C	Ceramic	0.0047μF	50V	±10%	1
C219	CD1 0 6100 0001V	Electrolytic	10μF	10V		1
C220	CM2 2 3500 K00SV	Mylar	0.022μF	50V	±10%	1
C221	CD1 0 5100 0001V	Electrolytic	1μF	10V		1
C222	CD1 0 5100 0001V	Electrolytic	1μF	10V		1
C229	CD4 7 4500 0001V	Electrolytic	0.47μF	50V		1
C230	CD3 3 6100 0001V	Electrolytic	33μF	10V		1
C231	CD1 0 7100 0001V	Electrolytic	100μF	10V		1
C232	CD1 0 8100 0001V	Electrolytic	1000μF	10V		1
C233	CM2 2 4500 J00TV	Mylar	0.22μF	50V	±5%	1
C234	CC2 7 2500 KE00C	Ceramic	0.0027μF	50V	±10%	1
C235	CC4 7 1500 KE00C	Ceramic	470pF	50V	±10%	1
C236	CC2 2 1500 KD00C	Ceramic	220pF	50V	±10%	1
C237	CD1 0 4500 0002V	Electrolytic	0.1μF	50V		1
C238	CD4 7 5160 0001V	Electrolytic	4.7μF	16V		1
C239	CT2 2 4350 M00DV	Tantalume	0.22μF	35V	±20%	1
C240	CC1 0 1500 KE00C	Ceramic	100pF	50V	±10%	1
C241	CD1 0 6160 0002V	Electrolytic	10μF	16V		1
C301	CD1 0 7100 0001V	Electrolytic	100μF	10V		1
C302	CD1 0 6100 0001V	Electrolytic	10μF	10V		1
C303	CC1 0 2500 KE00C	Ceramic	0.001μF	50V	±10%	1
C304	CD1 0 7100 0001V	Electrolytic	100μF	10V		1
C305	CD1 0 5100 0001V	Electrolytic	1μF	10V		1
C306	CD4 7 4500 0001V	Electrolytic	0.47μF	50V		1
C307	CD1 0 4100 0002V	Electrolytic	0.1μF	10V		1
C308	CD4 7 6100 0001V	Electrolytic	47μF	10V		1
C309	CC4 7 1500 KE00C	Ceramic	470pF	50V	±10%	1
C310	CD1 0 6160 0001V	Electrolytic	10μF	16V		1
C311	CD1 0 6100 0001V	Electrolytic	10μF	10V		1
C312	CD4 7 6160 0001V	Electrolytic	47μF	16V		1
C313	CM2 2 3500 K00SV	Mylar	0.022μF	50V	±10%	1
C315	CM6 8 2500 K00SV	Mylar	0.0068μF	50V	±10%	1
C316	CM6 8 2500 K00SV	Mylar	0.0068μF	50V	±10%	1
C317	CM6 8 2500 K00SV	Mylar	0.0068μF	50V	±10%	1
C318	CD1 0 5100 0001V	Electrolytic	1μF	10V		1
C319	CD1 0 5100 0001V	Electrolytic	1μF	10V		1
C320	CD1 0 6100 0001V	Electrolytic	10μF	10V		1
C321	CM6 8 2500 K00SV	Mylar	0.0068μF	50V	±10%	1
C322	CD3 3 6100 0001V	Electrolytic	33μF	10V		1
C323	CD1 0 7100 0001V	Electrolytic	100μF	10V		1
C324	CD4 7 5160 0001V	Electrolytic	4.7μF	16V		1
C330	CD4 7 7100 0001V	Electrolytic	470μF	10V		1
C331	CD2 2 8160 0001V	Electrolytic	2200μF	16V		1
C332	CD3 3 7160 0001V	Electrolytic	330μF	16V		1
C333	CD4 7 6100 0001V	Electrolytic	47μF	10V		1
C334	CM1 5 3500 K00SV	Mylar	0.015μF	50V	±10%	1
C335	CM6 8 2500 K00SV	Mylar	0.0068μF	50V	±10%	1
C336	CM6 8 2500 K00SV	Mylar	0.0068μF	50V	±10%	1
C337	CM4 7 3500 K00SV	Mylar	0.047μF	50V	±10%	1
C338	CD1 0 6160 0001V	Electrolytic	10μF	16V		1
C339	CP1 2 3101 J000V	Polypropylen	0.012μF	100V	±5%	1
C340	CD1 0 5100 0001V	Electrolytic	1μF	10V		1
C341	CD1 0 5100 0001V	Electrolytic	1μF	10V		1
C342	CD2 2 6100 0001V	Electrolytic	22μF	10V		1
C343	CM1 0 3500 K00SV	Mylar	0.01μF	50V	±10%	1
C344	CC3 3 2500 KE00C	Ceramic	0.0033μF	50V	±10%	1
C345	CD3 3 7160 0001V	Electrolytic	330μF	16V		1
C346	CC5 6 0500 KD00C	Ceramic	56pF	50V	±10%	1
C348	CM2 2 4500 J00TV	Mylar	0.22μF	50V	±5%	1
R101	RP1 0 2121 JH000	Pretty Carbon	1kΩ	1/8W	±5%	1
R102	RP4 7 2121 JH000	Pretty Carbon	4.7kΩ	1/8W	±5%	1
R103	RP1 0 0121 JH000	Pretty Carbon	10Ω	1/8W	±5%	1
R104	RP4 7 2121 JH000	Pretty Carbon	4.7kΩ	1/8W	±5%	1
R105	RP1 0 3121 JH000	Pretty Carbon	10kΩ	1/8W	±5%	1
R106	RP6 8 2121 JH000	Pretty Carbon	6.8kΩ	1/8W	±5%	1
R107	RP3 9 2121 JH000	Pretty Carbon	3.9kΩ	1/8W	±5%	1
R108	RP1 5 4121 JH000	Pretty Carbon	150kΩ	1/8W	±5%	1
R109	RP1 8 4121 JH000	Pretty Carbon	180kΩ	1/8W	±5%	1
R110	RP3 9 0121 JH000	Pretty Carbon	39Ω	1/8W	±5%	1
R111	RP3 3 4121 JH000	Pretty Carbon	330kΩ	1/8W	±5%	1
R112	RP1 2 3121 JH000	Pretty Carbon	12kΩ	1/8W	±5%	1
R113	RP1 0 2121 JH000	Pretty Carbon	1kΩ	1/8W	±5%	1
R114	RP6 8 1121 JH000	Pretty Carbon	680Ω	1/8W	±5%	1
R115	RP6 8 1121 JH000	Pretty Carbon	680Ω	1/8W	±5%	1
R116	RP1 0 1121 JH000	Pretty Carbon	100Ω	1/8W	±5%	1
R117	RP2 2 2121 JH000	Pretty Carbon	2.2kΩ	1/8W	±5%	1
R118	RP5 6 2121 JH000	Pretty Carbon	5.6kΩ	1/8W	±5%	1
R119	RP3 3 2121 JH000	Pretty Carbon	3.3kΩ	1/8W	±5%	1
R120	RP3 3 2121 JH000	Pretty Carbon	3.3kΩ	1/8W	±5%	1
R121	RP3 3 2121 JH000	Pretty Carbon	3.3kΩ	1/8W	±5%	1
R123	RP6 8 2121 JH000	Pretty Carbon	6.8kΩ	1/8W	±5%	1
R124	RP1 0 3121 JH000	Pretty Carbon	10kΩ	1/8W	±5%	1
R125	RP5 6 1121 JH000	Pretty Carbon	560Ω	1/8W	±5%	1
R127	RP1 0 3121 JH000	Pretty Carbon	10kΩ	1/8W	±5%	1
R129	RP5 6 3121 JH000	Pretty Carbon	56kΩ	1/8W	±5%	1
R130	RP2 2 2121 JH000	Pretty Carbon	2.2kΩ	1/8W	±5%	1
R131	RP2 2 2121 JH000	Pretty Carbon	2.2kΩ	1/8W	±5%	1
R132	RP1 2 4121 JH000	Pretty Carbon	120kΩ	1/8W	±5%	1
R133	RP1 5 3121 JH000	Pretty Carbon	15kΩ	1/8W	±5%	1
R134	RP2 2 2121 JH000	Pretty Carbon	2.2kΩ	1/8W	±5%	1
R135	RP1 0 1121 JH000	Pretty Carbon	100Ω	1/8W	±5%	1
R136	RP5 6 3121 JH000	Pretty Carbon	56kΩ	1/8W	±5%	1
R137	RP2 2 2121 JH000	Pretty Carbon	2.2kΩ	1/8W	±5%	1
R144	RP2 2 3121 JH000	Pretty Carbon	22kΩ	1/8W	±5%	1
R145	RP1 5 0121 JH000	Pretty Carbon	15Ω	1/8W	±5%	1
R146	RP1 8 2121 JH000	Pretty Carbon	1.8kΩ	1/8W	±5%	1
R147	RP1 5 1121 JH000	Pretty Carbon	150Ω	1/8W	±5%	1
R148	RP2 2 0121 JH000	Pretty Carbon	22Ω	1/8W	±5%	1
R149	RP1 0 A121 JH000	Pretty Carbon	1Ω	1/8W	±5%	1
R150	RP4 3 2121 JH000	Pretty Carbon	4.3kΩ	1/8W	±5%	1
R151	RP1 0 1121 JH000	Pretty Carbon	100Ω	1/8W	±5%	1
R153	RP2 2 2121 JH000	Pretty Carbon	2.2kΩ	1/8W	±5%	1
R154	RP2 7 3121 JH000	Pretty Carbon	27kΩ	1/8W	±5%	1
R155	RP1 0 1121 JH000	Pretty Carbon	100Ω	1/8W	±5%	1
R157	RP1 5 3121 JH000	Pretty Carbon	15kΩ	1/8W	±5%	1
R158	RP4 7 3121 JH000	Pretty Carbon	47kΩ	1/8W	±5%	1
R159	RP1 0 A121 JH000	Pretty Carbon	1Ω	1/8W	±5%	1
R161	RP2 2 2121 JH000	Pretty Carbon	2.2kΩ	1/8W	±5%	1
R201	RP1 0 2121 JH000	Pretty Carbon	1kΩ	1/8W	±5%	1
R202	RP4 7 2121 JH000	Pretty Carbon	4.7kΩ	1/8W	±5%	1
R203	RP1 0 0121 JH000	Pretty Carbon	10Ω	1/8W	±5%	1
R204	RP4 7 2121 JH000	Pretty Carbon	4.7kΩ	1/8W	±5%	1
R205	RP1 0 3121 JH000	Pretty Carbon	10kΩ	1/8W	±5%	1
R206	RP6 8 2121 JH000	Pretty Carbon	6.8kΩ	1/8W	±5%	1
R207	RP3 9 2121 JH000	Pretty Carbon	3.9kΩ	1/8W	±5%	1
R208	RP1 5 4121 JH000	Pretty Carbon	150kΩ	1/8W	±5%	1
R209	RP1 8 4121 JH000	Pretty Carbon	180kΩ	1/8W	±5%	1
R210	RP3 9 0121 JH000	Pretty Carbon	39Ω	1/8W	±5%	1
R211	RP3 3 4121 JH000	Pretty Carbon	330kΩ	1/8W	±5%	1
R212	RP1 2 3121 JH000	Pretty Carbon	12kΩ	1/8W	±5%	1
R213	RP1 0 2121 JH000	Pretty Carbon	1kΩ	1/8W	±5%	1
R214	RP6 8 1121 JH000	Pretty Carbon	680Ω	1/8W	±5%	1

P.C.BOARD PARTS LIST (Continued)

Ref. No.	Part No.	Description				Q'ty
R215	RP6 8 1121 JH000	Pretty Carbon	680Ω	1/8W	± 5%	1
R216	RP1 0 1121 JH000	Pretty Carbon	100Ω	1/8W	± 5%	1
R217	RP2 2 2121 JH000	Pretty Carbon	2.2kΩ	1/8W	± 5%	1
R218	RP5 6 2121 JH000	Pretty Carbon	5.6kΩ	1/8W	± 5%	1
R219	RP3 3 2121 JH000	Pretty Carbon	3.3kΩ	1/8W	± 5%	1
R220	RP3 3 2121 JH000	Pretty Carbon	3.3kΩ	1/8W	± 5%	1
R221	RP3 3 2121 JH000	Pretty Carbon	3.3kΩ	1/8W	± 5%	1
R223	RP6 8 2121 JH000	Pretty Carbon	6.8kΩ	1/8W	± 5%	1
R224	RP1 0 3121 JH000	Pretty Carbon	10kΩ	1/8W	± 5%	1
R225	RP5 6 1121 JH000	Pretty Carbon	560Ω	1/8W	± 5%	1
R227	RP1 0 3121 JH000	Pretty Carbon	10kΩ	1/8W	± 5%	1
R229	RP5 6 3121 JH000	Pretty Carbon	56kΩ	1/8W	± 5%	1
R230	RP2 2 2121 JH000	Pretty Carbon	2.2kΩ	1/8W	± 5%	1
R231	RP2 2 2121 JH000	Pretty Carbon	2.2kΩ	1/8W	± 5%	1
R232	RP1 2 4121 JH000	Pretty Carbon	120kΩ	1/8W	± 5%	1
R233	RP1 5 3121 JH000	Pretty Carbon	15kΩ	1/8W	± 5%	1
R234	RP2 2 2121 JH000	Pretty Carbon	2.2kΩ	1/8W	± 5%	1
R235	RP1 0 1121 JH000	Pretty Carbon	100Ω	1/8W	± 5%	1
R236	RP5 6 3121 JH000	Pretty Carbon	56kΩ	1/8W	± 5%	1
R237	RP2 2 2121 JH000	Pretty Carbon	2.2kΩ	1/8W	± 5%	1
R244	RP2 2 3121 JH000	Pretty Carbon	22kΩ	1/8W	± 5%	1
R245	RP1 5 0121 JH000	Pretty Carbon	15Ω	1/8W	± 5%	1
R246	RP1 8 2121 JH000	Pretty Carbon	1.8kΩ	1/8W	± 5%	1
R247	RP1 5 1121 JH000	Pretty Carbon	150Ω	1/8W	± 5%	1
R248	RP2 2 0121 JH000	Pretty Carbon	22Ω	1/8W	± 5%	1
R249	RP1 0 A121 JH000	Pretty Carbon	1Ω	1/8W	± 5%	1
R250	RP4 3 2121 JH000	Pretty Carbon	4.3kΩ	1/8W	± 5%	1
R251	RP1 0 1121 JH000	Pretty Carbon	100Ω	1/8W	± 5%	1
R253	RP2 2 2121 JH000	Pretty Carbon	2.2kΩ	1/8W	± 5%	1
R254	RP2 7 3121 JH000	Pretty Carbon	27kΩ	1/8W	± 5%	1
R255	RP1 0 1121 JH000	Pretty Carbon	100Ω	1/8W	± 5%	1
R257	RP1 5 3121 JH000	Pretty Carbon	15kΩ	1/8W	± 5%	1
R258	RP4 7 3121 JH000	Pretty Carbon	47kΩ	1/8W	± 5%	1
R259	RP1 0 A121 JH000	Pretty Carbon	1Ω	1/8W	± 5%	1
R261	RP2 2 2121 JH000	Pretty Carbon	2.2kΩ	1/8W	± 5%	1
R301	RP5 6 0121 JH000	Pretty Carbon	56Ω	1/8W	± 5%	1
R302	RP3 3 2121 JH000	Pretty Carbon	3.3kΩ	1/8W	± 5%	1
R303	RP8 2 2121 JH000	Pretty Carbon	8.2kΩ	1/8W	± 5%	1
R304	RP1 2 2121 JH000	Pretty Carbon	1.2kΩ	1/8W	± 5%	1
R305	RP1 5 1121 JH000	Pretty Carbon	150Ω	1/8W	± 5%	1
R306	RP6 2 2121 JH000	Pretty Carbon	6.2kΩ	1/8W	± 5%	1
R307	RP3 9 1121 JH000	Pretty Carbon	390Ω	1/8W	± 5%	1
R308	RP1 0 2121 JH000	Pretty Carbon	1kΩ	1/8W	± 5%	1
R309	RP6 8 1121 JH000	Pretty Carbon	680Ω	1/8W	± 5%	1
R310	RP2 7 4121 JH000	Pretty Carbon	270kΩ	1/8W	± 5%	1
R312	RP2 2 2121 JH000	Pretty Carbon	2.2kΩ	1/8W	± 5%	1
R313	RP6 8 0121 JH000	Pretty Carbon	68Ω	1/8W	± 5%	1
R314	RP5 6 2121 JH000	Pretty Carbon	5.6kΩ	1/8W	± 5%	1
R315	RP5 6 3121 JH000	Pretty Carbon	56kΩ	1/8W	± 5%	1
R316	RP1 5 4121 JH000	Pretty Carbon	150kΩ	1/8W	± 5%	1
R317	RP1 0 5121 JH000	Pretty Carbon	1MΩ	1/8W	± 5%	1
R318	RP2 2 2121 JH000	Pretty Carbon	2.2kΩ	1/8W	± 5%	1
R319	RP1 8 4121 JH000	Pretty Carbon	180kΩ	1/8W	± 5%	1
R320	RP1 0 3121 JH000	Pretty Carbon	10kΩ	1/8W	± 5%	1
R321	RP4 7 2121 JH000	Pretty Carbon	4.7kΩ	1/8W	± 5%	1
R322	RP2 2 4121 JH000	Pretty Carbon	220kΩ	1/8W	± 5%	1
R323	RP2 2 1121 JH000	Pretty Carbon	220Ω	1/8W	± 5%	1
R324	RP2 2 3121 JH000	Pretty Carbon	22kΩ	1/8W	± 5%	1
R325	RP1 0 2121 JH000	Pretty Carbon	1kΩ	1/8W	± 5%	1
R326	RP1 0 4121 JH000	Pretty Carbon	100kΩ	1/8W	± 5%	1
R327	RP4 7 4121 JH000	Pretty Carbon	470kΩ	1/8W	± 5%	1
R328	RP1 0 2121 JH000	Pretty Carbon	1kΩ	1/8W	± 5%	1
R329	RP1 8 4121 JH000	Pretty Carbon	180kΩ	1/8W	± 5%	1
R331	RP5 6 A121 JH000	Pretty Carbon	5.6Ω	1/8W	± 5%	1

Ref. No.	Part No.	Description				Q'ty
R332	RP4 7 1121 JH000	Pretty Carbon	470Ω	1/8W	± 5%	1
R333	RH4 7 0501 JH000	Metal	47Ω	1/2W	± 5%	1
R334	RH3 3 0501 JH000	Metal	33Ω	1/2W	± 5%	1
R335	RH1 0 0501 JH000	Metal	10Ω	1/2W	± 5%	1
R336	RP8 2 2121 JH000	Pretty Carbon	8.2kΩ	1/8W	± 5%	1
R337	RP8 2 2121 JH000	Pretty Carbon	8.2kΩ	1/8W	± 5%	1
R338	RP3 3 A121 JH000	Pretty Carbon	3.3Ω	1/8W	± 5%	1
R339	RP3 3 A121 JH000	Pretty Carbon	3.3Ω	1/8W	± 5%	1
R340	RP2 2 3121 JH000	Pretty Carbon	22kΩ	1/8W	± 5%	1
R341	RP3 3 4121 JH000	Pretty Carbon	330kΩ	1/8W	± 5%	1
R342	RP3 3 3121 JH000	Pretty Carbon	33kΩ	1/8W	± 5%	1
R343	RP1 5 1121 JH000	Pretty Carbon	150Ω	1/8W	± 5%	1
R344	RP1 0 3121 JH000	Pretty Carbon	10kΩ	1/8W	± 5%	1
R345	RP1 2 4121 JH000	Pretty Carbon	120kΩ	1/8W	± 5%	1
R346	RP1 5 3121 JH000	Pretty Carbon	15kΩ	1/8W	± 5%	1
R347	RP2 2 2121 JH000	Pretty Carbon	2.2kΩ	1/8W	± 5%	1
R348	RP1 2 1121 JH000	Pretty Carbon	120Ω	1/8W	± 5%	1
R349	RP2 2 2121 JH000	Pretty Carbon	2.2kΩ	1/8W	± 5%	1
R350	RP4 7 2121 JH000	Pretty Carbon	4.7kΩ	1/8W	± 5%	1
R351	RH3 3 0501 JH000	Metal	33Ω	1/2W	± 5%	1
R352	RP1 0 1121 JH000	Pretty Carbon	100Ω	1/8W	± 5%	1
R353	RP1 0 5121 JH000	Pretty Carbon	1MΩ	1/8W	± 5%	1
R355	RP5 6 2121 JH000	Pretty Carbon	5.6kΩ	1/8W	± 5%	1
R356	RP2 2 2121 JH000	Pretty Carbon	2.2kΩ	1/8W	± 5%	1

RADIO TUNER P.C.B. ASSY

Ref. No.	Part No.	Description		Q'ty
PCB2	4 1259 71800	Radio Tuner P.C.B. Assy		1
	4 2369 70740	RT Pin		12
	101 3 1302 60411	Screw, Pan Hd.	+M2.6x4	2
	141 2 3229 23800	Shield Plate		1
	141 2 3229 23000	Shield Plate		1
	141 2 3229 38500	Shield Plate		1
	141 2 4729 04400	Staple, 12.5mm		3
	141 2 4729 04700	Staple, 10mm		11
	141 2 4729 05000	Staple, 5mm		17
S7	4 2319 73860	Slide Switch (Band Select)		1
L1	4 2599 70146	Coil RF		1
L2	4 2659 70180	Loading Coil		1
L3	4 2589 71960	FM OSC Trans		1
L4	4 2579 71250	Bar Antenna		1
L5	4 2539 70870	Band Pass Filter		1
L6	4 2729 70530	Low Pass Filter		1
L7	4 2729 70530	Low Pass Filter		1
P1	4 2229 73060	Potentiometer (B-10kΩ)		1
PVC1	4 2249 70452	Variable Condenser		1
T1	4 2569 70991	IFT 10.7MHZ		1
T2	4 2569 70320	IFT		1
T3	4 2569 70330	IFT		1
T4	4 2569 70910	IFT AM		1
T5	4 2569 70820	IFT AM		1
T6	4 2569 70720	IFT		1
T7	4 2579 70721	Antenna Coil		1
T8	4 2589 72010	OSC Trans		1
T9	4 2589 71360	OSC Trans MW		1
T10	4 2589 70703	OSC Trans LW		1
TC1	4 2249 70290	Trimmer Condenser		1
TC2	4 2249 70290	Trimmer Condenser		1
TC3	4 2249 70290	Trimmer Condenser		1
TC4	4 2249 70290	Trimmer Condenser		1
TC5	4 2249 70350	Trimmer		1
TC6	4 2249 70350	Trimmer		1
CF1	4 2539 70183	Ceramic Filter		1
CF2	4 2539 70183	Ceramic Filter		1

P.C.BOARD PARTS LIST (Continued)

Ref. No.	Part No.	Description				Q'ty
FB1	4 2539 70211	Ferrite Bead				1
D1	4 2029 70860	Diode, ITT 73N				1
D2	4 2029 70790	Diode, ITT410				1
D3	4 2029 71850	Diode, 0A90				1
D4	4 2029 71850	Diode, 0A90				1
D5	4 2029 71950	Diode, HP80				1
D6	205 5 9040 44210	Diode, DS 442				1
D7	4 2029 71950	Diode, HP80				1
D8	205 5 9040 44210	Diode, DS 442				1
D9	205 5 9040 44210	Diode, DS 442				1
D10	205 5 9040 44210	Diode, DS 442				1
D11	205 5 9040 44210	Diode, DS 442				1
D12	4 2029 71721	Diode, RD6.8				1
D13	205 5 9040 44210	Diode, DS 442				1
D14	205 5 9040 44210	Diode, DS 442				1
Q1	4 2039 70380	Transistor, 2SC1674				1
Q2	4 2039 70380	Transistor, 2SC1674				1
Q3	4 2039 70460	Transistor, 2SC1675				1
Q4	4 2039 70431	Transistor, 2SC 1815				1
Q5	4 2039 70460	Transistor, 2SC1675				1
IC1	4 2069 70232	IC, μPC1018E				1
IC2	4 2069 71660	IC, TA7343P				1
C1	CC1 0 1500 KD00R	Ceramic	100pF	50V	± 10%	1
C2	CI1 0 3250 MF00R	Boundary	0.01μF	25V	± 20%	1
C3	CI2 2 3160 XG00R	Boundary	0.022μF	16V	+40,-20%	1
C4	CC2 2 0500 JD00C	Ceramic	22pF	50V	± 5%	1
C5	CC4 7 A500 KD00R	Ceramic	4.7pF	50V	± 10%	1
C6	CC1 0 A500 MD00R	Ceramic	1pF	50V	± 20%	1
C7	CC2 7 1500 KE00R	Ceramic	270pF	50V	± 10%	1
C8	CI1 0 3250 MF00R	Boundary	0.01μF	25V	± 20%	1
C9	CI2 2 3160 XG00R	Boundary	0.022μF	16V	+40,-20%	1
C10	CC1 2 0500 JCH0R	Ceramic	12pF	50V	± 5%	1
C11	CC1 8 0500 JCH0C	Ceramic	18pF	50V	± 5%	1
C12	CC1 2 0500 JCH0C	Ceramic	12pF	50V	± 5%	1
C13	CC1 5 0500 JCH0R	Ceramic	15pF	50V	± 5%	1
C14	CC1 0 0500 JCH0R	Ceramic	10pF	50V	± 5%	1
C15	CI2 2 3160 XG00R	Boundary	0.022μF	16V	+40,-20%	1
C16	CC2 0 A500 CCH0C	Ceramic	2pF	50V	± 0.2pF	1
C17	CC2 2 0500 JD00R	Ceramic	22pF	50V	± 5%	1
C18	CC1 0 0500 JCH0R	Ceramic	10pF	50V	± 5%	1
C19	CC8 2 A500 KD00R	Ceramic	8.2pF	50V	± 10%	1
C20	CI2 2 3160 XG00R	Boundary	0.022μF	16V	+40,-20%	1
C21	CI2 2 3160 XG00R	Boundary	0.022μF	16V	+40,-20%	1
C22	CI1 0 3250 KE00C	Boundary	0.01μF	25V	± 10%	1
C23	CI2 2 3160 XG00R	Boundary	0.022μF	16V	+40,-20%	1
C24	CI2 2 3160 XG00R	Boundary	0.022μF	16V	+40,-20%	1
C25	CI2 2 3160 XG00R	Boundary	0.022μF	16V	+40,-20%	1
C26	CB4 7 4160 0000V	None-polar	0.47μF	16V		1
C27	CI2 2 3160 XG00R	Boundary	0.022μF	16V	+40,-20%	1
C28	CI2 2 3160 XG00R	Boundary	0.022μF	16V	+40,-20%	1
C29	CC1 0 0500 JCH0C	Ceramic	10pF	50V	± 5%	1
C30	CI2 2 3160 XG00R	Boundary	0.022μF	16V	+40,-20%	1
C31	CC2 2 1500 KE00C	Ceramic	220pF	50V	± 10%	1
C32	CC2 2 1500 KE00C	Ceramic	220pF	50V	± 10%	1
C33	CD4 7 5160 0001V	Electrolytic	4.7μF	16V		1
C34	CI2 2 3160 XG00R	Boundary	0.022μF	16V	+40,-20%	1
C35	CI1 0 3250 MF00R	Boundary	0.01μF	25V	± 20%	1
C36	CI1 0 3250 KE00C	Boundary	0.01μF	25V	± 10%	1
C37	CD2 2 6100 0001V	Electrolytic	22μF	10V		1
C39	CD2 2 4500 0002V	Electrolytic	0.22μF	50V		1
C40	CD1 0 6100 0000V	Electrolytic	10μF	10V		1
C41	CC2 2 2500 KE00C	Ceramic	0.0022μF	50V	± 10%	1
C42	CI2 2 3160 XG00R	Boundary	0.022μF	16V	+40,-20%	1
C43	CC5 6 A500 KD00R	Ceramic	5.6pF	50V	± 10%	1

Ref. No.	Part No.	Description				Q'ty
C44	CS3 1 2500 J000V	Polystyroul	0.0031μF	50V	± 5%	1
C45	CS3 5 1500 J000V	Polystyroul	350pF	50V	± 5%	1
C46	CS2 0 1500 J000V	Polystyroul	200pF	50V	± 5%	1
C47	CC2 7 A500 KD00R	Ceramic	2.7pF	50V	± 10%	1
C48	CC1 2 0500 JCH0R	Ceramic	12pF	50V	± 5%	1
C49	CC1 0 1500 JD00R	Ceramic	100pF	50V	± 5%	1
C50	CI2 2 3160 XG00R	Boundary	0.022μF	16V	+40,-20%	1
C51	CD4 7 4500 0002V	Electrolytic	0.47μF	50V		1
C52	CD3 3 5250 0002V	Electrolytic	3.3μF	25V		1
C53	CD1 0 5100 0002V	Electrolytic	1μF	10V		1
C54	CS1 0 2500 J000V	Polystyroul	0.001μF	50V	± 5%	1
C55	CD1 0 5100 0002V	Electrolytic	1μF	10V		1
C56	CD1 0 4500 0002V	Electrolytic	0.1μF	50V		1
C57	CD1 0 4500 0002V	Electrolytic	0.1μF	50V		1
C58	CD4 7 7160 0001V	Electrolytic	470μF	16V		1
C59	CI2 2 3160 XG00R	Boundary	0.022μF	16V	+40,-20%	1
C60	CC8 2 A500 JCH0C	Ceramic	8.2pF	50V	± 5%	1
C61	CD1 0 7100 0001V	Electrolytic	100μF	10V		1
C62	CD4 7 5160 0001V	Electrolytic	4.7μF	16V		1
C63	CI2 2 3160 XG00R	Boundary	0.022μF	16V	+40,-20%	1
C64	CI4 7 3250 KE00C	Boundary	0.047μF	25V	± 10%	1
C65	CI2 2 3160 XG00R	Boundary	0.022μF	16V	+40,-20%	1
C66	CI1 0 3250 MF00R	Boundary	0.01μF	25V	± 20%	1
C67	CC2 7 0500 JD00R	Ceramic	27pF	50V	± 5%	1
C68	CI4 7 3250 KE00C	Boundary	0.047μF	25V	± 10%	1
C69	CC1 2 0500 KD00C	Ceramic	12pF	50V	± 10%	1
C70	CI2 2 2500 KE00R	Boundary	0.0022μF	50V	± 10%	1
C71	CC3 3 2500 KE00C	Ceramic	0.0033μF	50V	± 10%	1
C72	CC1 0 1500 JD00C	Ceramic	100pF	50V	± 5%	1
R1	RP2 2 1121 JH000	Pretty Carbon	220Ω	1/8W	± 5%	1
R2	RP5 6 4121 JH000	Pretty Carbon	560kΩ	1/8W	± 5%	1
R3	RP3 9 2121 JH000	Pretty Carbon	3.9kΩ	1/8W	± 5%	1
R4	RP2 2 1121 JH000	Pretty Carbon	220Ω	1/8W	± 5%	1
R5	RP5 6 4121 JH000	Pretty Carbon	560kΩ	1/8W	± 5%	1
R6	RP1 0 3121 JH000	Pretty Carbon	10kΩ	1/8W	± 5%	1
R7	RP2 2 1121 JH000	Pretty Carbon	220Ω	1/8W	± 5%	1
R8	RP5 6 4121 JH000	Pretty Carbon	560kΩ	1/8W	± 5%	1
R9	RP2 2 1121 JH000	Pretty Carbon	220Ω	1/8W	± 5%	1
R10	RP6 8 2121 JH000	Pretty Carbon	6.8kΩ	1/8W	± 5%	1
R11	RP1 0 5121 JH000	Pretty Carbon	1MΩ	1/8W	± 5%	1
R12	RP4 7 1121 JH000	Pretty Carbon	470Ω	1/8W	± 5%	1
R13	RP1 2 3121 JH000	Pretty Carbon	12kΩ	1/8W	± 5%	1
R14	RP1 0 1121 JH000	Pretty Carbon	100Ω	1/8W	± 5%	1
R15	RP1 0 2121 JH000	Pretty Carbon	1kΩ	1/8W	± 5%	1
R16	RP1 0 2121 JH000	Pretty Carbon	1kΩ	1/8W	± 5%	1
R17	RP4 7 2121 JH000	Pretty Carbon	4.7kΩ	1/8W	± 5%	1
R18	RP4 7 2121 JH000	Pretty Carbon	4.7kΩ	1/8W	± 5%	1
R19	RP5 6 3121 JH000	Pretty Carbon	56kΩ	1/8W	± 5%	1
R20	RP1 0 1121 JH000	Pretty Carbon	100Ω	1/8W	± 5%	1
R21	RP1 0 3121 JH000	Pretty Carbon	10kΩ	1/8W	± 5%	1
R22	RP1 2 3121 JH000	Pretty Carbon	12kΩ	1/8W	± 5%	1
R23	RP4 7 3121 JH000	Pretty Carbon	47kΩ	1/8W	± 5%	1
R24	RP5 6 4121 JH000	Pretty Carbon	560kΩ	1/8W	± 5%	1
R25	RP2 2 2121 JH000	Pretty Carbon	2.2kΩ	1/8W	± 5%	1
R26	RD4 7 1251 JM000	Carbon	470Ω	1/4W	± 5%	1
R27	RP3 3 2121 JH000	Pretty Carbon	3.3kΩ	1/8W	± 5%	1
R28	RP1 0 3121 JH000	Pretty Carbon	10kΩ	1/8W	± 5%	1
R29	RP3 3 0121 JH000	Pretty Carbon	33Ω	1/8W	± 5%	1
R30	RD4 7 0251 JM000	Carbon	47Ω	1/4W	± 5%	1
R31	RD5 6 A251 JM000	Carbon	5.6Ω	1/4W	± 5%	1
R32	RP2 2 3121 JH000	Pretty Carbon	22kΩ	1/8W	± 5%	1
R33	RP1 5 3121 JH000	Pretty Carbon	15kΩ	1/8W	± 5%	1
R34	RP1 5 3121 JH000	Pretty Carbon	15kΩ	1/8W	± 5%	1
R35	RP1 5 2121 JH000	Pretty Carbon	1.5kΩ	1/8W	± 5%	1

P.C.BOAR

Ref. No.	Part No.	Description			
R36	RP1 5 2121 JH000	Pretty Carbon	1.5kΩ	1/8W	± 5
R37	RP2 7 4121 JH000	Pretty Carbon	270kΩ	1/8W	± 5
R38	RP1 0 2121 JH000	Pretty Carbon	1kΩ	1/8W	± 5
R39	RP8 2 2121 JH000	Pretty Carbon	8.2kΩ	1/8W	± 5
R40	RP8 2 1121 JH000	Pretty Carbon	820Ω	1/8W	± 5
R41	RH1 1 1501 JH000	Metal	110Ω	1/2W	± 5
R42	RP1 0 1121 JH000	Pretty Carbon	100Ω	1/8W	± 5
R43	RP1 0 0121 JH000	Pretty Carbon	10Ω	1/8W	± 5
R44	RP1 0 1121 JH000	Pretty Carbon	100Ω	1/8W	± 5
R45	RP2 2 2121 JH000	Pretty Carbon	2.2kΩ	1/8W	± 5
R46	RP4 7 4121 JH000	Pretty Carbon	470kΩ	1/8W	± 5
R47	RP1 2 1121 JH000	Pretty Carbon	120Ω	1/8W	± 5
R48	RP4 7 1121 JH000	Pretty Carbon	470Ω	1/8W	± 5
R49	RP2 2 1121 JH000	Pretty Carbon	220Ω	1/8W	± 5
R50	RP2 2 1121 JH000	Pretty Carbon	220Ω	1/8W	± 5
R51	RP1 2 3121 JH000	Pretty Carbon	12kΩ	1/8W	± 5
R52	RD2 2 1251 JM000	Carbon	220Ω	1/4W	± 5

MIKE MIXING JACK P.C.B. ASSY

PCB3	4 1329 78020	Mike Mixing Jack P.C.B. Assy			
	4 2269 37410	PCB, Mike Mixing Jack			
J9	4 2359 75640	1P Jack 3.6 (Mike Mixing)			
	141 2 3779 19500	Bracket PCB Jack			

JACK P.C.B. ASSY

PCB4	4 1329 78032	Jack P.C.B. Assy			
	4 2269 37401	PCB, Jack			
J7	4 2359 74780	Din Socket 5P (Record/Play)			
J10	4 2359 72954	Ext. Power Socket			
C350	CD4 7 7160 0001V	Electrolytic	470μF	16V	
R126	RP1 0 5121 JH000	Pretty Carbon	1MΩ	1/8W	±
R226	RP1 0 5121 JH000	Pretty Carbon	1MΩ	1/8W	±

INDICATOR P.C.B. ASSY

PCB5	4 1329 78040	Indicator P.C.B. Assy			
	4 2269 37390	PCB, Indicator			
CN1	4 2359 75760	Connector 8P Assy			
CN2	4 2359 75750	Connector 3P Assy			
S8	4 2319 75560	Touch Switch (AMSS Program)			
S11	4 2319 75560	Touch Switch (Rec. Mute)			
D310	4 2029 72080	LED, SLP-156B (AMSS 1)			
D311	4 2029 72080	LED, SLP-156B (AMSS 2)			
D312	4 2029 72080	LED, SLP-156B (AMSS 3)			
D315	4 2029 72080	LED, SLP-156B (Battery/Operation)			
R354	RP2 7 1121 JH000	Carbon	270Ω	1/8W	±

POWER SUPPLY P.C.B. ASSY

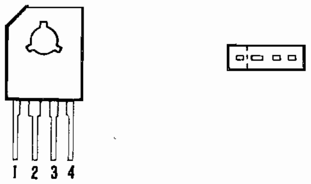
PCB6	4 1329 78061	Power Supply P.C.B. Assy			
	4 2269 37420	PCB, Power			
	⚠ 4 2359 70910	Fuse Holder			
F301	⚠ 4 2349 70140	Fuse (T 1A)			
C325	CC2 2 3500 ZG00C	Ceramic	0.022μF	50V	+80.
C326	CC2 2 3500 ZG00C	Ceramic	0.022μF	50V	+80.
C327	CC2 2 3500 ZG00C	Ceramic	0.022μF	50V	+80.
C328	CC2 2 3500 ZG00C	Ceramic	0.022μF	50V	+80.
C329	CD2 2 8160 0001V	Electrolytic	2200μF	16V	
D320	4 2029 70620	Bridge Diode			

NOTES:

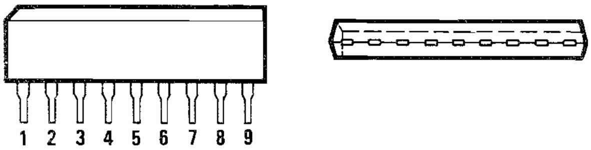
1. Parts order must contain Model Number, Part Number and Descr
2. Ordering quantity of screws and resistors must be multiple of 10

R LEAD IDENTIFICATION

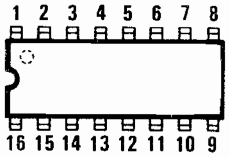
LA5512B FRONT/BOTTOM VIEW



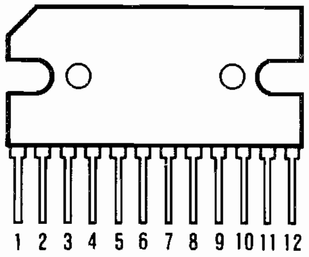
TA7343P FRONT/ BOTTOM VIEW



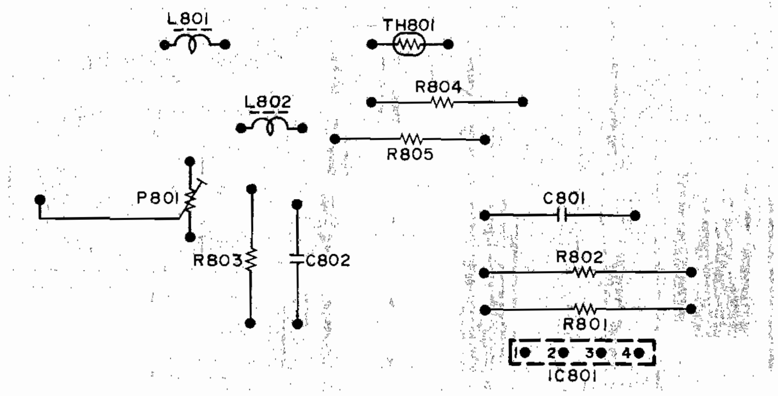
μPC1018 BOTTOM VIEW



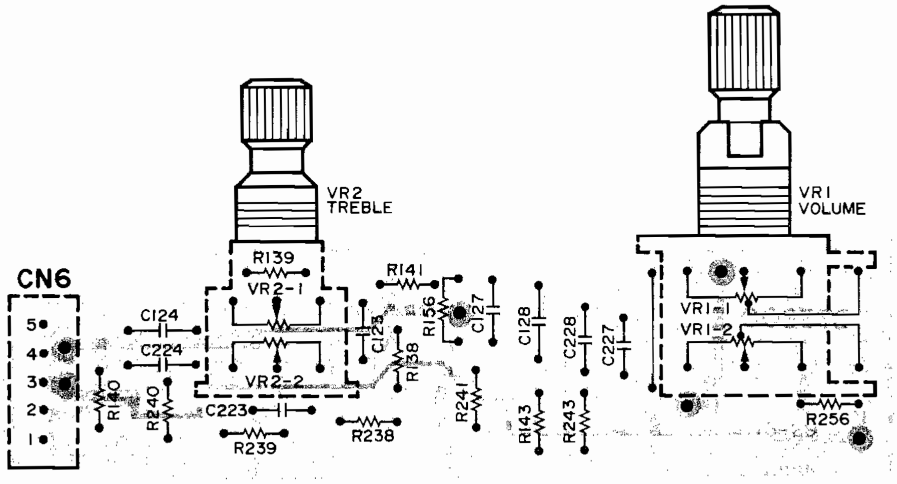
BA5402A BOTTOM VIEW



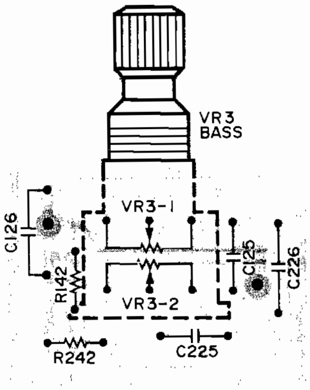
MOTOR GOVERNOR P.C.BOARD


L801
TH801
R804
L802
R805
P801
C801
R803
C802
R802
R801
1
2
3
4
IC801

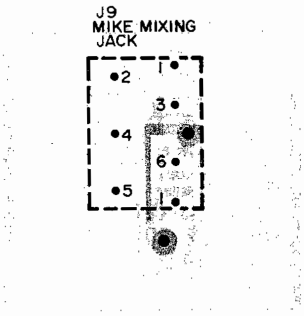
VOLUME CONTROL P.C.BOARD


VR2
TREBLE
VR1
VOLUME
CN6
5
4
3
2
1
R139
VR2-1
R141
C124
C224
C123
R156
C127
C128
C228
C227
VR1-1
VR1-2
R138
VR2-2
R140
R240
C223
R241
R143
R243
R256
R239
R238

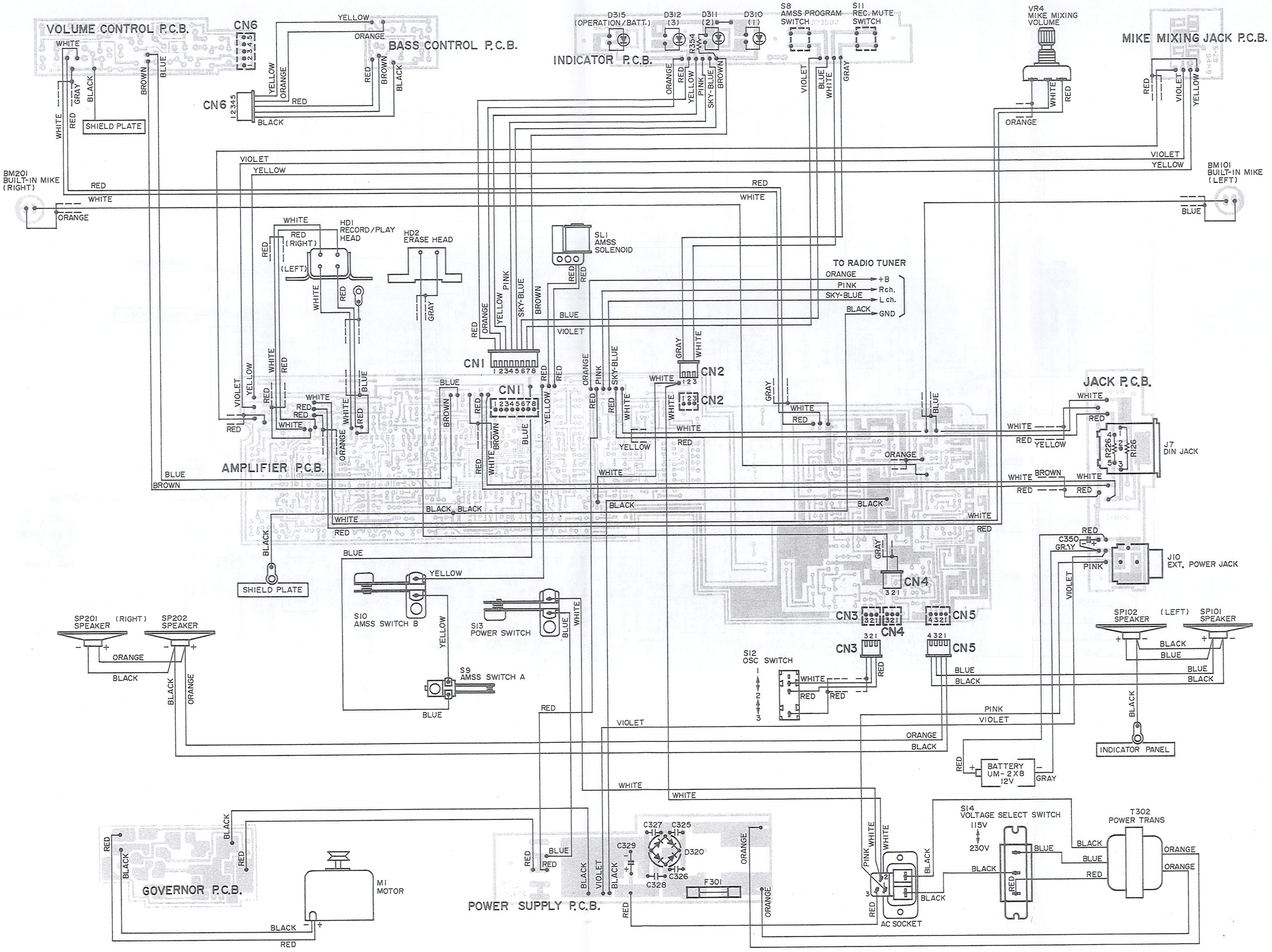
BASS CONTROL P.C.BOARD


VR3
BASS
VR3-1
C126
R142
C125
C226
VR3-2
R242
C225

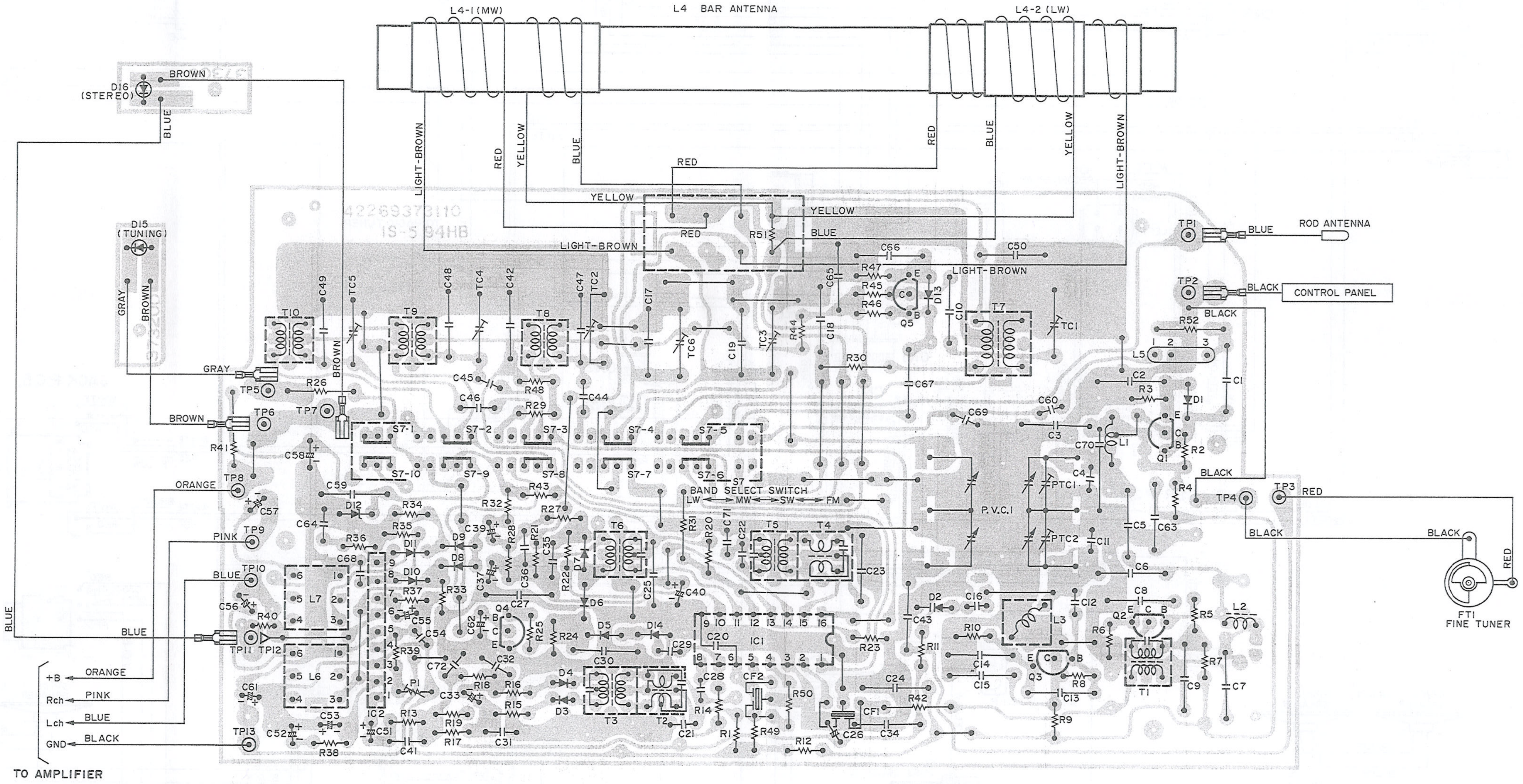
MIKE MIXING JACK P.C.BOARD


J9
MIKE MIXING
JACK
2
1
3
4
6
5

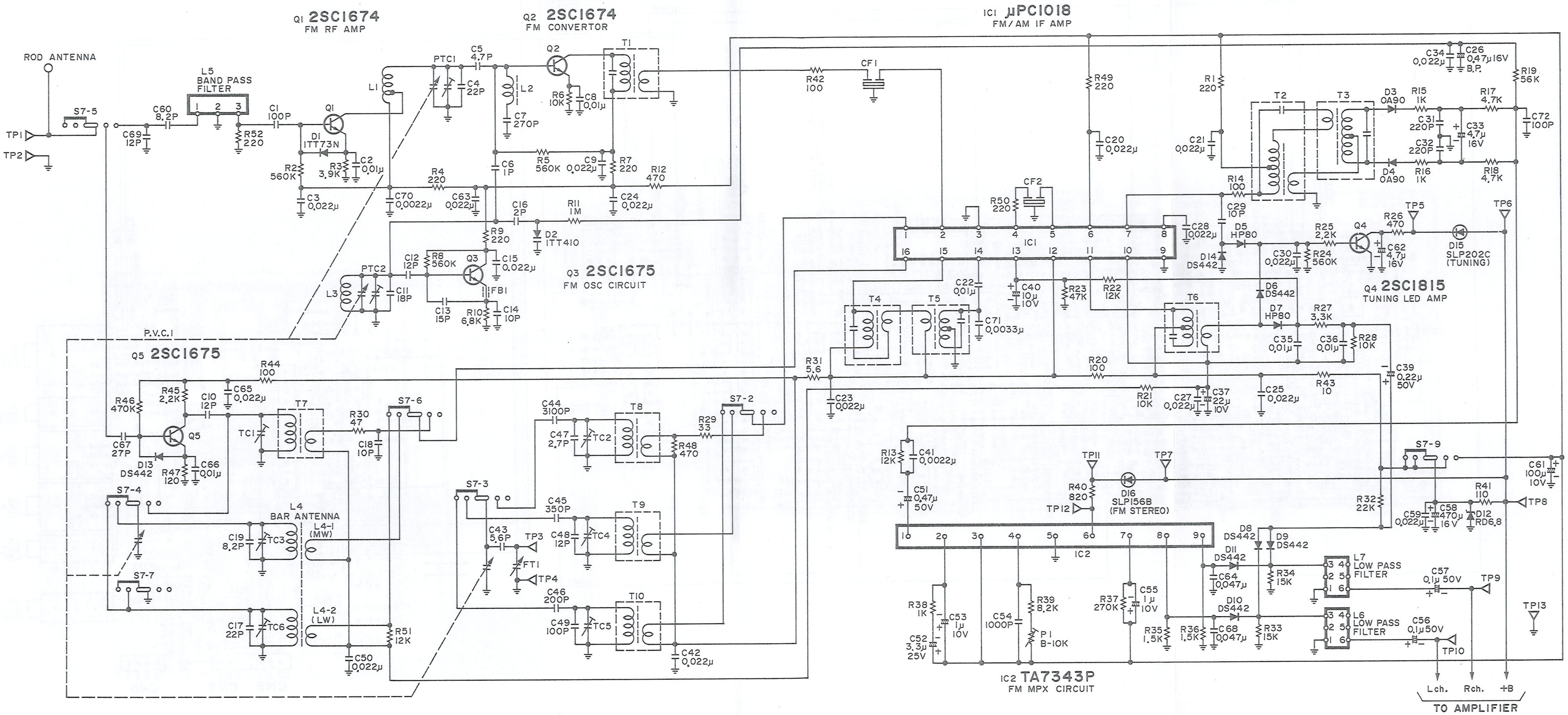
WIRING DIAGRAM


VOLUME CONTROL P.C.B.
CN6
BASS CONTROL P.C.B.
CN6
SHIELD PLATE
BM201
BUILT-IN MIKE
(RIGHT)
INDICATOR P.C.B.
D315
(OPERATION/BATT.)
D312
(3)
D311
(2)
D310
(1)
R354
S8
AMSS PROGRAM
SWITCH
S11
REC. MUTE
SWITCH
VR4
MIKE MIXING
VOLUME
MIKE MIXING JACK P.C.B.
BM101
BUILT-IN MIKE
(LEFT)
HD1
RECORD/PLAY
HEAD
(RIGHT)
(LEFT)
HD2
ERASE HEAD
SL1
AMSS
SOLENOID
TO RADIO TUNER
+B
Rch.
Lch.
GND
CN1
CN2
AMPLIFIER P.C.B.
JACK P.C.B.
J7
DIN JACK
R226
R126
C350
J10
EXT. POWER JACK
CN4
CN3
CN5
SHIELD PLATE
S10
AMSS SWITCH B
S13
POWER SWITCH
S9
AMSS SWITCH A
SP201
SPEAKER
(RIGHT)
SP202
SPEAKER
SP102
SPEAKER
(LEFT)
SP101
SPEAKER
S12
OSC SWITCH
INDICATOR PANEL
BATTERY
UM-2X8
12V
GOVERNOR P.C.B.
M1
MOTOR
POWER SUPPLY P.C.B.
C327
C325
C329
D320
C326
C328
F301
AC SOCKET
S14
VOLTAGE SELECT SWITCH
115V
230V
T302
POWER TRANS
WHITE
RED
GRAY
BLACK
BROWN
BLUE
YELLOW
ORANGE
VIOLET
PINK
SKY-BLUE

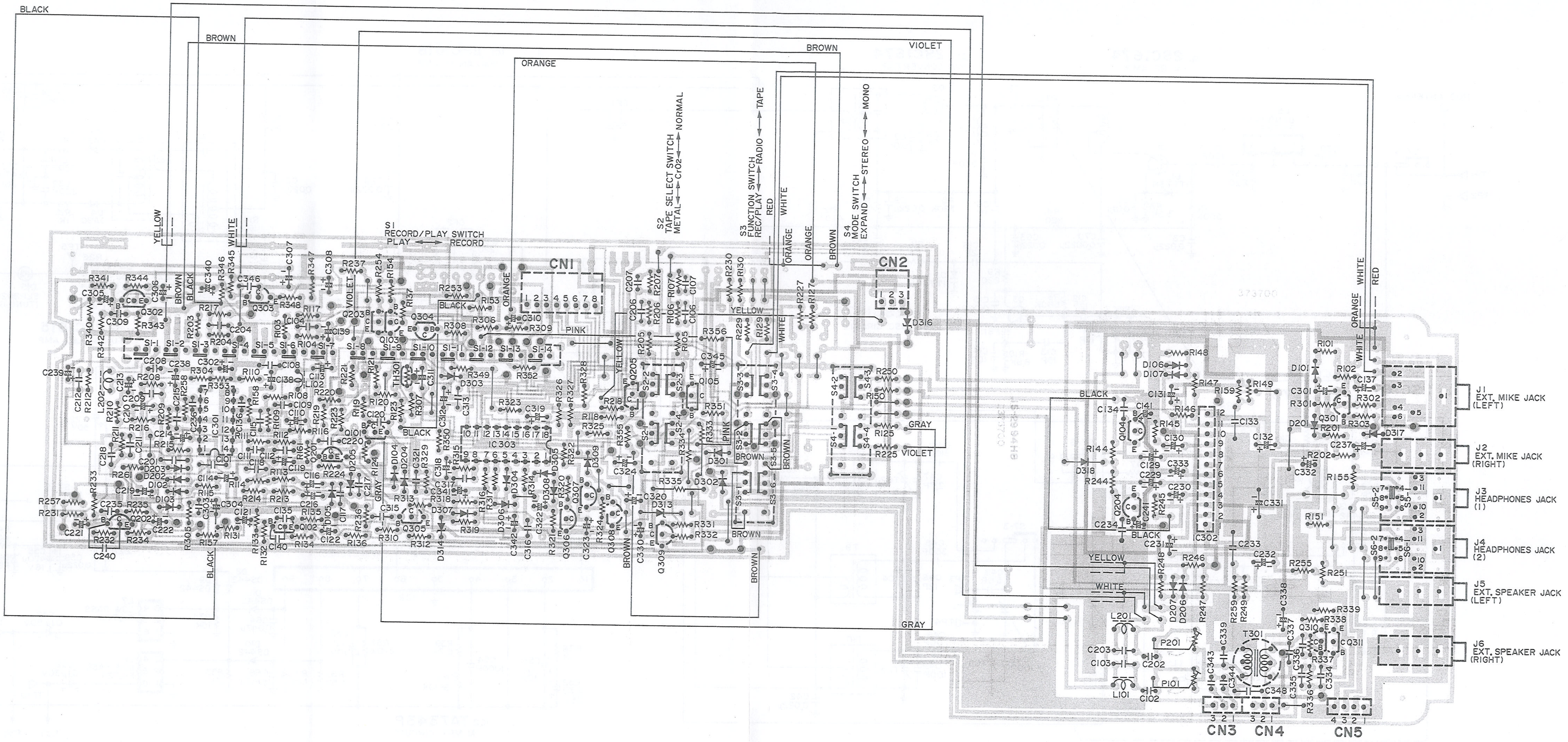
RADIO TUNER P.C.BOARD


L4-1 (MW)
L4 BAR ANTENNA
L4-2 (LW)
D16 (STEREO)
BROWN
BLUE
D15 (TUNING)
GRAY
LIGHT-BROWN
RED
YELLOW
R51
ROD ANTENNA
CONTROL PANEL
BLACK
TP1
TP2
TP3
TP4
TP5
TP6
TP7
TP8
TP9
TP10
TP11
TP12
TP13
ORANGE
PINK
T1
T2
T3
T4
T5
T6
T7
T8
T9
T10
TC1
TC2
TC3
TC4
TC5
TC6
S7-1
S7-2
S7-3
S7-4
S7-5
S7-6
S7-7
S7-8
S7-9
S7-10
S7
BAND SELECT SWITCH
LW ← MW → SW → FM
P.V.C.1
PTC1
PTC2
IC1
IC2
L1
L2
L3
L5
L6
L7
Q1
Q2
Q3
Q4
Q5
CF1
CF2
FT1
FINE TUNER
+B
Rch
Lch
GND
TO AMPLIFIER

SCHEMATIC DIAGRAM (Tuner)

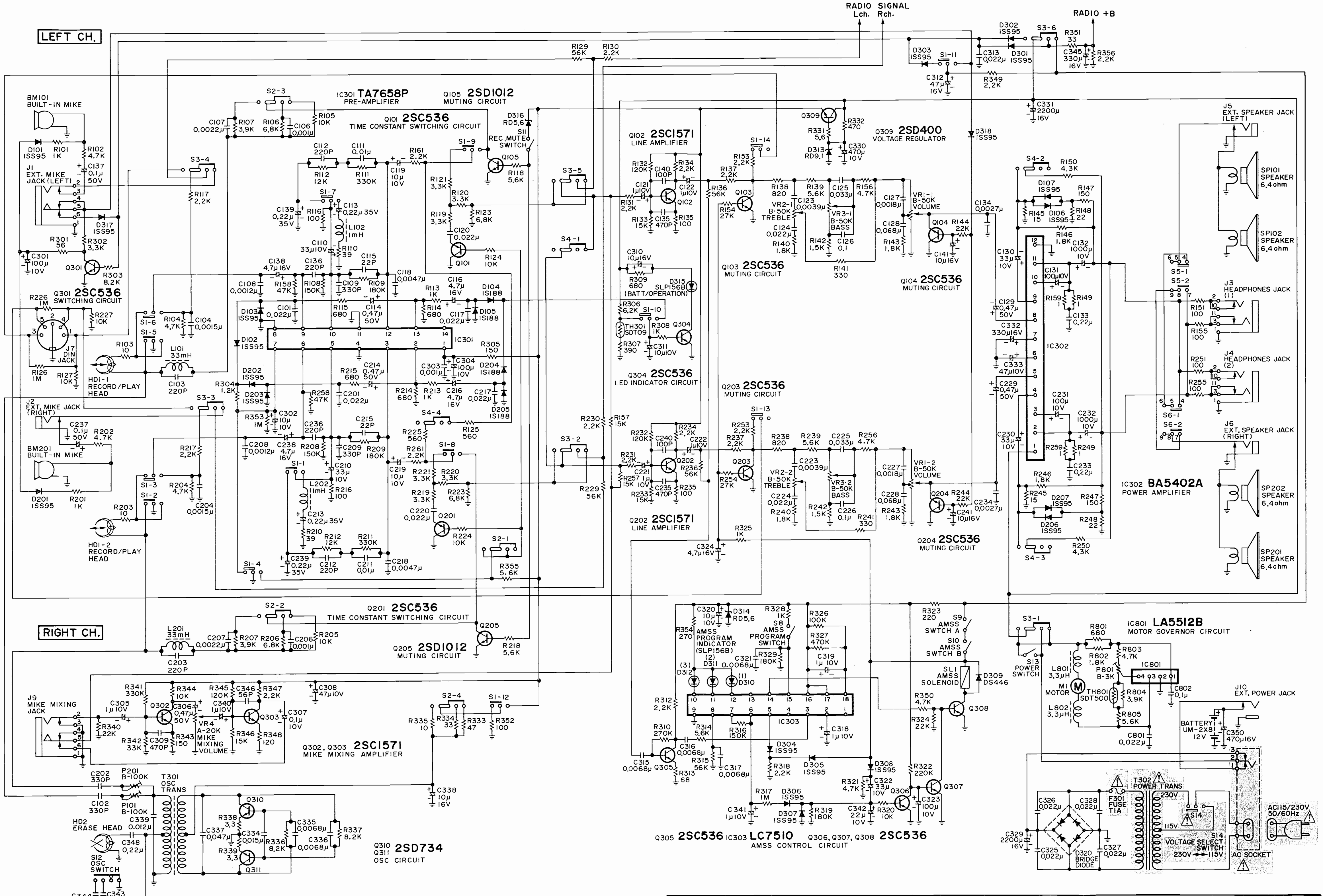

Q1 2SC1674
FM RF AMP
Q2 2SC1674
FM CONVERTOR
IC1 µPC1018
FM/AM IF AMP
ROD ANTENNA
TP1
TP2
S7-5
C69 12P
C60 8.2P
L5 BAND PASS FILTER
R52 220
C1 100P
D1 ITT73N
R2 560K
R3 3.9K
C2 0.01µ
C3 0.022µ
L1
PTC1
C5 4.7P
C4 22P
L2
C7 270P
R6 10K
C8 0.01µ
T1
R4 220
C70 0.0022µ
C63 0.022µ
C6 1P
R5 560K
C9 0.022µ
R7 220
R12 470
C24 0.022µ
C16 2P
R11 1M
D2 ITT410
R9 220
C15 0.022µ
C12 12P
R8 560K
Q3
L3
PTC2
C11 18P
C13 15P
FB1
R10 6.8K
C14 10P
Q3 2SC1675
FM OSC CIRCUIT
R42 100
CF1
R49 220
C20 0.022µ
R1 220
C21 0.022µ
T2
T3
D3 OA90
R15 1K
R17 4.7K
C34 0.022µ
C26 0.47µ 16V B.P.
R19 56K
C31 220P
C33 4.7µ 16V
C32 220P
C72 100P
D4 OA90
R16 1K
R18 4.7K
R14 100
CF2
R50 220
C28 0.022µ
C29 10P
D5 HP80
D14 DS442
R25 2.2K
Q4
R26 470
TP5
TP6
D15 SLP202C (TUNING)
C30 0.022µ
R24 560K
C62 4.7µ 16V
Q4 2SC1815
TUNING LED AMP
IC1
C22 0.01µ
C40 10µ 10V
R23 47K
R22 12K
D6 DS442
T4
T5
C71 0.0033µ
T6
D7 HP80
R27 3.3K
C35 0.01µ
C36 0.01µ
R28 10K
P.V.C.I
Q5 2SC1675
R44 100
R31 5.6
R20 100
R43 10
C39 0.22µ 50V
R46 470K
R45 2.2K
C10 12P
C65 0.022µ
T7
R30 47
S7-6
C23 0.022µ
R21 10K
C27 0.022µ
C37 22µ 10V
C25 0.022µ
C67 27P
Q5
TC1
C18 10P
D13 DS442
R47 120
C66 0.01µ
C44 3100P
C47 2.7P
TC2
T8
R29 33
R48 470
S7-2
R13 12K
C41 0.0022µ
TP11
TP7
S7-9
C61 100µ 10V
S7-4
L4 BAR ANTENNA
L4-1 (MW)
C19 8.2P
TC3
S7-3
C45 350P
T9
C43 5.6P
TP3
C48 12P
TC4
FT1
TP4
R40 820
D16 SLP156B (FM STEREO)
TP12
C51 0.47µ 50V
R32 22K
R41 110
TP8
C59 0.022µ
C58 470µ 16V
D12 RD6.8
D8 DS442
D9 DS442
IC2
S7-7
L4-2 (LW)
C17 22P
TC6
R51 12K
C50 0.022µ
C46 200P
C49 100P
TC5
T10
C42 0.022µ
D11 DS442
C64 0.047µ
R34 15K
L7 LOW PASS FILTER
C57 0.1µ 50V
TP9
TP13
R38 1K
C53 1µ 10V
C52 3.3µ 25V
C54 1000P
R39 8.2K
P1 B-10K
R37 270K
C55 1µ 10V
R35 1.5K
R36 1.5K
C68 0.047µ
D10 DS442
R33 15K
L6 LOW PASS FILTER
C56 0.1µ 50V
TP10
IC2 TA7343P
FM MPX CIRCUIT
Lch.
Rch.
+B
TO AMPLIFIER

AMPLIFIER P.C.BOARD


BLACK
BROWN
ORANGE
BROWN
VIOLET
YELLOW
WHITE
S1
RECORD/PLAY SWITCH
PLAY ⟷ RECORD
S2
TAPE SELECT SWITCH
METAL ⟷ CrO2 ⟷ NORMAL
S3
FUNCTION SWITCH
REC/PLAY ⟷ RADIO ⟷ TAPE
S4
MODE SWITCH
EXPAND ⟷ STEREO ⟷ MONO
CN1
CN2
CN3
CN4
CN5
IC301
IC302
IC303
PINK
GRAY
RED
J1
EXT. MIKE JACK
(LEFT)
J2
EXT. MIKE JACK
(RIGHT)
J3
HEADPHONES JACK
(1)
J4
HEADPHONES JACK
(2)
J5
EXT. SPEAKER JACK
(LEFT)
J6
EXT. SPEAKER JACK
(RIGHT)
T301
L101
L201
P101
P201

No.	Name	Position	No.	Name	Position
S1	Record/Playback Switch	PLAY	S8	AMSS Program Switch	OFF
S2	Tape Select switch	NORMAL	S9	AMSS Switch A	OFF
S3	Function Switch	TAPE	S10	AMSS Switch B	OFF
S4	Mode Switch	MONO	S11	REC. Mute Switch	OFF
S5	Headphones Switch	OFF	S12	OSC Switch	1
S6	Headphones Switch	OFF	S13	Power Switch	OFF
S7	Band Select Switch	LW	S14	Voltage Select Switch	230V

SCHEMATIC DIAGRAM (Amplifier)


LEFT CH.
RIGHT CH.
RADIO SIGNAL Lch. Rch.
RADIO +B
BM101 BUILT-IN MIKE
J1 EXT. MIKE JACK (LEFT)
J2 EXT. MIKE JACK (RIGHT)
BM201 BUILT-IN MIKE
J7 DIN JACK
HD1-1 RECORD/PLAY HEAD
HD1-2 RECORD/PLAY HEAD
Q301 2SC536 SWITCHING CIRCUIT
IC301 TA7658P PRE-AMPLIFIER
Q105 2SD1012 MUTING CIRCUIT
Q101 2SC536 TIME CONSTANT SWITCHING CIRCUIT
REC.MUTE SWITCH
Q102 2SC1571 LINE AMPLIFIER
Q103 2SC536 MUTING CIRCUIT
Q304 2SC536 LED INDICATOR CIRCUIT
Q203 2SC536 MUTING CIRCUIT
Q202 2SC1571 LINE AMPLIFIER
Q309 2SD400 VOLTAGE REGULATOR
Q104 2SC536 MUTING CIRCUIT
Q204 2SC536 MUTING CIRCUIT
VR1-1 B-50K VOLUME
VR1-2 B-50K VOLUME
VR2-1 B-50K TREBLE
VR2-2 B-50K TREBLE
VR3-1 B-50K BASS
VR3-2 B-50K BASS
IC302
IC302 BA5402A POWER AMPLIFIER
J5 EXT. SPEAKER JACK (LEFT)
SP101 SPEAKER 6,4ohm
SP102 SPEAKER 6,4ohm
J3 HEADPHONES JACK (1)
J4 HEADPHONES JACK (2)
J6 EXT. SPEAKER JACK (RIGHT)
SP202 SPEAKER 6,4ohm
SP201 SPEAKER 6,4ohm
Q201 2SC536 TIME CONSTANT SWITCHING CIRCUIT
Q205 2SD1012 MUTING CIRCUIT
J9 MIKE MIXING JACK
VR4 A-20K MIKE MIXING VOLUME
Q302, Q303 2SC1571 MIKE MIXING AMPLIFIER
T301 OSC TRANS
HD2 ERASE HEAD
S12 OSC SWITCH
Q310 Q311 2SD734 OSC CIRCUIT
D310 PROGRAM INDICATOR (SLP156B)
AMSS PROGRAM SWITCH
AMSS SWITCH A
AMSS SWITCH B
AMSS SOLENOID
IC303
Q305 2SC536 IC303 LC7510 Q306, Q307, Q308 2SC536 AMSS CONTROL CIRCUIT
IC801 LA5512B MOTOR GOVERNOR CIRCUIT
S13 POWER SWITCH
M1 MOTOR
J10 EXT. POWER JACK
BATTERY UM-2X8 12V
T302 POWER TRANS
F301 FUSE T1A
D320 BRIDGE DIODE
S14 VOLTAGE SELECT SWITCH 230V ←→ 115V
AC115/230V 50/60Hz
AC SOCKET

PRODUCT SAFETY NOTICE

PRODUCT SAFETY SHOULD BE CONSIDERED WHEN A COMPONENT REPLACEMENT IS MADE IN ANY AREA OF AN UNIT. COMPONENTS INDICATED BY A MARK ⚠ IN THIS SCHEMATIC DIAGRAM SHOW COMPONENTS WHOSE VALUE HAS SPECIAL SIGNIFICANCE TO PRODUCT SAFETY. IT IS PARTICULARLY RECOMMENDED THAT ONLY PARTS SPECIFIED ON THE ATTACHED PARTS LIST BE USED FOR COMPONENT REPLACEMENT POINTED OUT BY THE MARK.

SANYO ELECTRIC TRADING CO., LTD.
OSAKA, JAPAN
August/'82/2,000 **Printed in Japan**

MODIFICATION NOTICE

CASSETTE RECORDER

SANYO

M 7830LU (EUROPE) WM-8429
M 7830LG (UK) WM-8427

Date Mar. 15, 1983 Issued by

The following corrections should be made in the SERVICE MANUALS and PARTS (PRICE) LIST.

		Section	Key No.	Part No.	Description	Q'ty	Remark	Reason
1	From	Motor Governor PCB Assy	P801	4-2229-70323	Potentiometer (B-3K Ω)			E
	To		"	4-2229-73023	"			
2	From							
	To							
3	From							
	To							

INTERCHANGEABLE NOT INTERCHANGEABLE	Serial No. Chassis No.	Effective from
Q'ty of initial production before modification.	Identification of modified unit.	

REASON FOR MODIFICATION

A ..... Standardization	C ..... Improvement of reliability	E ..... Miss print	G .....
B ..... Change of materials	D ..... Improvement of performance	F ..... Miss register	

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OSAKA, JAPAN

WM- 9668